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May 10, 2002

VIA UPS OVERNIGHT DELIVERY

Carol Ropski
Emergency Enforcement & Support Section
SE 5J
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, IL 60604-3590

Re: Request for Information Pursuant to Section 104 of

CERCLA for the Downers Grove Groundwater Site in

Downers Grove, DuPage County, Illinois

Dear Ms. Ropski:

In our capacity as counsel to Morey Corporation ("Morey Corp.") we have prepared on Morey Corp.'s behalf the following Response to U.S. EPA's Request for Information Pursuant to Section 104 of CERCLA for the Downers Grove Groundwater Site in Downers Grove, DuPage County, Illinois, dated April 18, 2002. Under cover of this letter, please find enclosed documents bearing the Bates stamp range MOR 000001-MOR 001390 and MOR 001425-MOR 001556. Documents in the range MOR 001391-MOR 1424 are being sent simultaneously under separate cover in an oversize document tube. This set of documents is identical to a set produced to Illinois EPA ("IEPA") in response to an information request that was also related to the Downers Grove Groundwater Site investigation, with the addition of five (5) additional pages numbered MOR 001552-MOR 001556.

The following responses correspond to the numbered requests contained in the information request:



CLIENT/MATTER NUMBER 087656-0114

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Carol Ropski May 10, 2002 Page 2

1. Identify all persons consulted in the preparation of the answers to these Information Requests.

Response: Current employees of Morey Corp., 100 Morey Drive, Woodridge, Illinois, 60517, (630) 754-2300: Dana Morey Vice-President; Jay Morey, Vice-President; Vincent Petrella, CFO; Fred Pfeiffer, Safety Manager; Jonathan Rausch, Director of Materials Purchasing; Theresa Cunningham, Purchasing Agent; Bill Prasch, Director of Manufacturing; Chris Murphy, Director of Test Engineering; Bogdan Buczek, Plant Engineer; Wayne Dial, Sales Manager; and Ed Hollowed, Chief Engineer. Former employee: Patricia Jurinek, Morey Corp.'s Purchasing Manager from 1979 through 1992, 9 S. 737 William Drive, Hinsdale, IL 60527; Phone (630) 243-6430. Counsel: Gary Rovner, Foley & Lardner, Three First National Plaza, 70 West Madison, Chicago, IL 60602 and Jeff Zimmerman, Foley & Lardner, 3000 K Street, N.W., Suite 500, Washington, D.C. 20007.

2. Identify all documents consulted, examined, or referred to in the preparation of the answers to these Requests, and provide copies of all such documents.

Response: The documents that we examined in preparation of the answers to this information request were, for the most part, the same documents that we identified and provided to the Illinois Environmental Protection Agency, Bureau of Land, in response to its information request regarding the Downers Grove groundwater investigation, dated October 3, 2001. Copies of these documents, bearing the Bates stamp range MOR 000001-MOR 001551, are enclosed. In addition, we obtained information from one of Morey Corp.'s vendors regarding four potting

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machines purchase from that vendor between 1986 and 1991. Copies of these additional documents, bearing the Bates stamp range MOR 001552 – MOR 001556, are enclosed.

3. If you have reason to believe that there may be persons able to provide a more detailed or complete response to any Information Request or who may be able to provide additional responsive documents, identify such persons.

Response: By an agreement dated January 9, 2001 (See MOR 000211 and following) Morey Corporation's parent company, MC Holdings Corporation/Morey Realty Group, Inc. ("MC Holdings") sold the portion of the subject property containing Morey Corp.'s Facility to Ross and Barbara Johnson of Johnson Printing, 2659 Wisconsin Avenue, Downers Grove, Illinois. The current owners may have additional information not in the control of Morey Corporation about current activities at the Facility. In addition, individuals previously with Montgomery Ward, which leased part of the facility located at 2659 Wisconsin Avenue, Downers Grove, IL, may have more information related to the underground storage tank installed, used, and removed by Montgomery Ward. We do not have names or contact information for any such individuals.

4. Have you conducted any Phase I or Phase II investigations at your property? If so, please send copies of all reports including the analytical data.

Response: Morey Corp. has produced the following, which represents all reports in its possession relating to the facility: (1) A Focused Site Investigation & Remedial Action Completion Report (Addendum) (MOR 000012-000040) prepared by Pioneer Environmental, Inc. and dated January 23, 2001; (2) A Focused Site Investigation & Remedial Action

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Completion Report (MOR 000042-000210) dated November 8, 2000; and (3) A Phase II Subsurface Investigation Report prepared by Environmental Management and Resource Consultants, Inc. (ENMARC) dated May 18 and June 2, 2000 (MOR 000589-000629).

5. Are there any monitoring wells on your property? If so, provide a map and the analytical results of the samples that were collected. Identify the entity that installed the monitoring wells and the date(s) of the well installations.

Response: To the best of the knowledge of those who participated in preparing this response letter, the property does not have and never has had any groundwater wells.

6. Have any soil borings been collected on your property. If so, send a map and analytical results related to the borings that were collected. Identify the entity that performed the soil borings and the date(s) in which they were taken.

Response: Yes, a total of 17 soil borings were conducted by Pioneer Environmental, Inc., in connection with the Focused Site Investigation & Remedial Action Completion Report (MOR 000042-000210) dated November 8, 2000, and with the Focused Site Investigation & Remedial Action Report (Addendum) (MOR 000012-000040) dated January 23, 2001. Fifteen of these soil borings were conducted on August 28 and 29, 2000 (see, MOR 000050). The sixteenth and seventeenth borings were conducted on January 2, 2001 (see, MOR 000015). While both reports include location maps and analytical results, the more recent report includes a map showing all the boring location on one page at MOR 000018 and all analytical results in one table at MOR 000020-21.

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7. Have there ever been above ground or below ground storage tanks at your facility? If so, provide maps of the locations of the tanks. What was stored in each tank? If the tanks have been removed or replaced provide the date(s) of their removal or replacement. Provide copies of any analytical results of the contents of the tanks and analytical results of any samples taken of the soil surrounding or below the tanks.

Response: Morey Corporation has never installed or used any above ground or underground storage tanks either inside or outside the building located on this property. Based on information and belief, Morey Corporation understands that its tenant, Montgomery Ward, installed and ultimately removed an underground storage tank (UST) on this property. It is believed that this tank was used to store fuel for their vehicles. It is our understanding that removal of the UST occurred prior to the expiration of the Montgomery Ward lease. It is also our understanding based on the information available to us, that the tank was removed in accordance with all applicable state and federal regulations, but Morey Corp. does not have access to any written information or reports related to the use or the removal of this tank. The company has no reason to believe that any leakage of petroleum products occurred from the time the UST was installed through its removal.

8. Describe your company's solvent management system (including the locations of your product and waste holding tanks, drums and containers) at your facility prior to 1980.

Response: Morey Corp. has always used this facility for the manufacture of small electrical and mechanical assemblies (i.e. circuit board assemblies) primarily for use in automotive and telecommunication assemblies. Its processes required the use of relatively small amounts of hazardous materials and/or substances. Morey Corp. has no records or other

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information available to it to determine precisely what the solvent management system at this facility was prior to 1980, but has interviewed current and former employees, Fred Pfeiffer, Ed Hollowed and Patricia Jurinek, who collectively provided the following anecdotal information about solvent management system. Prior to 1980, Morey Corp primarily used Freon as a solvent in a parts washer. Paint thinner was also used in very small quantities by dampening a rag and wiping or by using a small artists paint brush to apply thinner to an area where solder flux needed to be removed. Additionally, isopropyl alcohol was also used for the same types of small cleaning purposes. All of these chemicals were purchased using a hand written purchase requisition. When solvent material was received, it was catalogued, inspected for any damage and stored. The material was segregated from other materials and beginning in 1973 stored in a locked fire room. Freon was stored in 55 gallon drums. The thinner and alcohol were stored in the containers that they came in. When thinner or alcohol needed to be used, it was transferred out of the containers in the fire room into small cans which were designed so that, by pushing down on the top of the can, a small amount of the liquid inside would flow into the concave top of the can to be absorbed by a brush or rag. Excess thinner and alcohol evaporated from the top of the small cans and the parts on which they were used.

According to Morey Corp.'s written records (which date back to 1992), hazardous materials arrive at the Facility via the receiving department at a loading dock. All materials received are inspected to verify content, bar coded and sent to a fireproofed, vented fire room (located immediately adjacent to the loading dock) for storage. Any liquid chemical wastes

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(such as waste solder flux, thinners, and humiseal) are stored in 55-gallon enclosed drums and

are stored in the fire room. Pursuant to the company's waste handling policies, liquid wastes are

carried from the work stations to the fire room and placed in sealed waste drums. The waste

drums are routinely inspected by the Safety Manager, Mr. Fred Pfeiffer. When a drum is nearly

full (depending on use, from around every two to four weeks during the 1980s and before and,

more recently, every few months), Mr. Pfeiffer calls the waste disposal company. The liquid

wastes are disposed through the services of a third-party contractor, Environmental Waste

Services, Inc., 43 West 540 Main Street Road, Elburg, IL. The fire room is identified on the

architectural drawings as "storage room." See, e.g. MOR 001409, MOR 001415, MOR 001419.

9. Describe your company's waste solvent handling and disposal practices prior

to 1980.

Response: Morey Corp. has no specific information regarding its waste solvent

handling and disposal system practices prior to 1980, but, based on information obtained from

company personnel, there was very little need for disposal of solvents prior to 1980, because the

manufacturing processes were such that very few solvents were used. Freon was the primary

solvent used. The company no longer has any records regarding the disposition of used Freon.

In discussions with several employees, including, Dana Morey, Jay Morey, William Prasch and

Wayne Dial, we have determined that, approximately once a month, the Freon from the parts

washer tank was pumped into special drums (metal, 55 gallon), for removal and recycling. The

equipment was manufactured by Baron Blakeslee. The new and used Freon was stored in the

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fire room. Morey Corp has searched extensively but has not been able to locate records of the company that supplied new Freon, or removed and recycled the used Freon.

Prior to 1980, the company also used small quantities of paint thinner and isopropyl alcohol. Containers of new materials of this type were stored in the fire room. Ms. Jurinek, who was employed by Morey Corp. in 1973 and was in charge of purchasing and assisted in disposal activities beginning in 1979, verified that disposal practices dating back to 1979 were very much in line with current practices. Used solvents were stored in a sealed 55-gallon drum in the fire room, and as it became near to full, the drum was disposed of by a third party contractor. To the best of her recollection, a 55-gallon drum was filled with waste solvents and disposed of at most every two to four weeks.

10. Provide the names of your solvent suppliers, years of service, and quantities of solvents received since you have been at this location.

Response:

The companies and product names listed below are for solvents for which Morey Corp. has current MSDS materials and therefore are solvents that the company either does or may use today. Quantity information, to the extent available from company records is summarized after this table.

Solvent Suppliers, Products, and Quantities Received Since 1992

Company	Product Name	Bates numbers		
Markem Corporation	320 Cleaner	MOR 000688-694		

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DuPont	DBE Solvent	MOR 000706-712
Emerson and Cuming, Inc.	Eccostrip 93	MOR 000751-754
Chemtronics	Electro-Wash PX	MOR 000818-819
Alpha Metals	425 Thinner	MOR 0001350-1355
Humiseal Division, Chase Corp.	Solvent Solution	MOR 000893-895
Union Carbide	Isopropyl Alcohol	MOR 000902-908
Christopher Associates, Inc.	Flux, Solvent Mixture	MOR 000917-922
Loctite Corporation	ODC-Free 20260	MOR 000963-967
Oatey	Oatey Cleaner	MOR 001100-1101
Sherwin Williams	PC 101 Thinner	MOR 001357-1358
Nazdar Chicago	RE180 Screen Ink Thinner	MOR 001372-1376
Sunnyside Corporation	Xylene	MOR 001382-1384

Solvent Suppliers, Products, and Quantities Received Prior to 1992

Company	Product Name	Bates Numbers		
Unknown	Freon	n/a		
Unknown	Isopropyl alcohol	n/a		
Unknown	Paint thinner	n/a		
Unknown	Trichloroethylene	n/a		

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Based on anecdotal information obtained from company personnel (see discussion in the

response to Question 8 above), Morey Corp. had a parts washer that used Freon to clean small

parts and assemblies made by the company. While we do not know when Freon use began, we

believe it was discontinued in the mid-1980s. We have no quantity information regarding Freon

purchases. Based on this same information, the company also used small quantities of isopropyl

alcohol and paint thinner for cleaning parts assemblies during the manufacturing process, a s

described above in the response to Question 8.

Starting in 1986, Morey Corp. added equipment known as "potting machines" for use on

certain products it produced. Records we obtained from the manufacturer of these machines

indicate that Morey Corp. purchased the first of these machines in April 1986, a second in

September 1988, a third in August 1989, and a fourth in January 1991. MOR 001552-0001556.

These machines mixed a two part epoxy compound and pumped the mixture into electronic

component parts to insulate and seal the electronics in place once the epoxy mix cured. The

tubing that dispensed the mixed epoxy had to be cleaned with a solvent at the end of each work

day so that no epoxy residue would be left behind to block the tubing. Based on information and

belief, from April 1986 until May 1990, trichloroethylene (TCE) was used to clean the tubing, by

a closed loop system built into each machine that passed the TCE from a small (3-5 gallon)

holding tank, through the tubing, and back into the holding tank. Periodically, when the epoxy

residue in the tank reached a level where the solvent effect was diminished, the TCE would be

transferred into a 55 gallon waste solvent drum stored for approximately one month in the fire

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May 10, 2002

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room until it was nearly full. It would then be removed by a solvent handler for offsite recycling.

TCE was only used in these potting machines. There was no other use of TCE at the facility.

Sometime prior to May 1990 (the exact date is unclear), DBE Solvent was substituted for TCE

in this equipment and TCE use at the facility ceased.

The only purchaser records Morey Corp. has for solvent materials are from 1992 forward.

This period, under the heading "Gen Alcohol," the purchase records (MOR 001511-1519) show

a total of 1009 containers (5 gallons each) were purchased for a total of 5045 gallons of solvent.

Over this same period, under the heading "Gen. Thinner Conformal," the purchase records

(MOR 001449-0001451, MOR 001460-0001467) show a total of 1240 containers (5 gallons

each) were purchased for a total of 6200 gallons of solvent. Finally, for this period, under the

heading "Gen. Thinner (No Clean)," the purchase records (MOR 001452-1459) show a total of

300 containers (5 gallons each) were purchased for a total of 1500 gallons of solvent. Morey

Corp. has no purchase records for either the Freon used in the parts washer or the TCE used in

the potting machines. Similarly, there are no records to quantify the amount of isopropyl alcohol

or paint thinner used during or prior to the 1980s.

11. Provide the names of your waste solvent handlers, years of service, and

quantities of waste shipped since you have been in service at this location.

Response: Since 1992, all waste solvents have been handled by Environmental Waste

Services, Inc., located at 43 W 540C Main Street Rd., Elburn, IL 60119. See MOR 000643.

011.489401.1

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Morey Corp.'s hazardous waste manifest records (MOR 000299-MOR 000567) show that 4515 gallons of solvent waste have been shipped from the site. As noted in the responses to Questions 9 and 10 above, we have no information to identify the names of the solvent handlers for any of the waste solvent materials prior to 1992.

12. Provide drawings or diagrams of your sanitary and storm water sewer system at your facility.

Response: The sanitary and storm sewer systems are shown on Architectural drawing P-1 dated 3-16-73 (MOR 001419).

13. Provide a copy of all correspondence between yourself and each unit of local government regarding discharges into St. Joseph Creek and the municipal sewer.

Response: To the best of our knowledge, there is no correspondence between Morey Corp. and any unit of local government regarding discharges into St. Joseph Creek or the municipal sewer.

14. Describe the function of any floor drains at the facility. Provide a map of each floor drain location. Describe where the floor drains and associated piping drain to.

Response: To the best of our knowledge, there is one floor drain at this facility. This drain runs from the fire room to the outside of the building at the facility and is identified as a 4" pipe connected to a "scupper drain" on Sheet S-2 dated 3-16-73 (MOR 001418) and noted on

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Sheet A-2 dated 3-16-73 (MOR 001415). This scupper drain was intended to drain any liquids

that might be present on the floor of the fire room. The area around this drain was investigated

and remediated in 2000/2001, and a No Further Remediation Letter was received at the

completion of that project, see MOR 000001-000010.

FOLEY LARDNER

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This response was prepared in reliance, in whole or in part, upon officers, agents, employees or records of Morey Corp. This response is tendered subject to inadvertent or undiscovered errors and is necessarily limited by the records and information still in existence, presently recollected, and thus far discovered. Morey Corp. reserves the right to make changes to this Response if it appears that omissions or errors have been made or that more accurate information becomes available. Subject to these limitations, the Response is true to the best of the knowledge and belief of the undersigned.

Sincerely,

FOLEY & LARDNER

by LOK with pomissi

Jeff Zimmerman

Washington Harbour 3000 K Street, N.W.

Suite 500

Washington, D.C. 20007

(202) 672-5389

Gany S. Rovner

Three First National Plaza

70 West Madison

Suite 4100

Chicago, IL 60602

(312) 558-6606

on behalf of

MOREY CORPORATION

Enclosures

B

PREPARED BY:

Name:

Dana Morey

MC Holdings, Inc.

Address:

100 Morey Drive

Woodridge, IL 60517

J.P. "RICK" CARNEY

MAR.19,2001

08-12-303-008

OTHER 010 PAGES

8 R2001-046297

RETURN TO:

Name:

Dana Morey

MC Holdings, Inc.

Address:

100 Morey Drive

Woodridge, IL 60517

THE ABOVE SPACE FOR RECORDER'S OFFICE

This Environmental No Further Remediation Letter must be submitted by the remediation applicant within 45 days of its receipt, to the Office of the Recorder of DuPage County.

Illinois State EPA Number: 0430305029

Dana Morey, the Remediation Applicant, whose address is 100 Morey Drive, Woodridge, IL 60517 has performed investigative and/or remedial activities for the remediation site depicted on the attached Site Base Map and identified by the following:

Legal description or Reference to a Plat Showing the Boundaries:

Subject Property Legal Description:

Lots 32 and 33 in Ellsworth Park unit number 5, being a subdivision in the southwest ¼ of section 12, Township 38 North, Range 10 East of the third principal meridian, according to the plat thereof recorded January 10, 1962 as document number R62-993 in DuPage County, Illinois.

Remediation Site Description:

Beginning at the southeast property corner of Lot 32, extending north along eastern property line for 120 feet, then due west 100 feet, then south 120 feet to the southern property line and then east 100 feet to the point of beginning.

- 2. Common Address: 2659 Wisconsin Street, Downers Grove, IL
- 3. Real Estate Tax Index/Parcel Index Number: 02-12-303-008
- 4. Remediation Site Owner: Dana Morey
- 5. Land Use: Industrial/Commercial
- 6. Site Investigation: Focused

See NFR letter for other terms.

(Illinois EPA Site Remediation Program Environmental Notice)
Page 1



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGHELD, ILLINOIS 62794-9276
THOMAS V. SKINNER, DIRECTOR

(217) 782-6761

February 14, 2001

CERTIFIED MAIL 7099 3400 0002 1431 9264

Dana Morey MC Holdings, Inc. 100 Morey Drive Woodridge, IL 60517

Re:

0430305029/DuPage

Downers Grove/Morey Corporation

Site Remediation Program/Technical Reports

Dear Mr. Morey:

The Focused Site Investigation & Remedial Action Completion Report (November 8, 2000/00-4399), and the addendum to the report (January 23, 2001/01-0286) as prepared by Pioneer Environmental, Inc. for the Morey Corporation property, has been reviewed by the Illinois Environmental Protection Agency ("Illinois EPA") and demonstrates that the remedial action was completed in accordance with the Focused Site Investigation & Remedial Action Completion Report (November 8, 2000/00-4399), and the addendum to the report (January 23, 2000/01-0286).

The Remediation Site, consisting of 0.03 acres, is located at 2659 Wisconsin Street, Downers Grove, Illinois. Pursuant to Section 58.10 of the Illinois Environmental Protection Act ("Act") (415 ILCS 5/1 et seq.), your request for a no further remediation determination is granted under the conditions and terms specified in this letter. The Remediation Applicant, as identified on the Illinois EPA's Site Remediation Program DRM-1 Form (November 13, 2000/00-4399), is Dana Morey.

This focused No Further Remediation Letter ("Letter") signifies a release from further responsibilities under the Act for the performance of the approved remedial action. This Letter shall be considered prima facie evidence that the Remediation Site described in the attached Illinois EPA Site Remediation Program Environmental Notice and shown in the attached Site Base Map does not constitute a threat to human health and the environment for the specified recognized environmental conditions so long as the Site is utilized in accordance with the terms of this Letter.

GEORGE H. RYAN, GOVERNOR

Conditions and Terms of Approval

Level of Remediation and Land Use Limitations

- 1) The recognized environmental conditions, as characterized by the focused site investigation, consist of the following:
 - a) Regulated substances of concern that have been successfully addressed are detailed in the attached Table A.
- 2) The Remediation Site is restricted to Industrial/Commercial land use.
- 3) The land use specified in this Letter may be revised if:
 - a) Further investigation or remedial action has been conducted that documents the attainment of objectives appropriate for the new land use; and
 - b) A new Letter is obtained and recorded in accordance with Title XVII of the Act and regulations adopted thereunder.

Preventive, Engineering, and Institutional Controls

4) The implementation and maintenance of the following controls are required as part of the approval of the remediation objectives for this Remediation Site.

Institutional Controls:

5) No person shall construct, install, maintain, or operate a water system or well on the property identified in the Environmental Notice. All water supplies and water services for the Remediation Site must be obtained from a public water supply system. The provisions of this institutional control shall be applicable to all water usage (e.g., domestic, industrial/commercial uses and outdoor watering).

Other Terms

6) Where the Remediation Applicant is not the sole owner of the Remediation Site, the Remediation Applicant shall complete the attached Property Owner Certification of the No Further Remediation Letter under the Site Remediation Program Form. This certification, by original signature of each property owner, or the authorized agent of the owner(s), of the Remediation Site or any portion thereof who is not a Remediation Applicant shall be recorded along with this Letter.

7) Further information regarding this Remediation Site can be obtained through a written request under the Freedom of Information Act (5 ILCS 140) to:

Illinois Environmental Protection Agency Attn: Freedom of Information Act Officer Bureau of Land-#24 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276

- 8) Pursuant to Section 58.10(f) of the Act (415 ILCS 5/58.10(f)), should the Illinois EPA seek to void this Letter, the Illinois EPA shall provide notice to the current title holder and to the Remediation Applicant at the last known address. The notice shall specify the cause for the voidance, explain the provisions for appeal, and describe the facts in support of this cause. Specific acts or omissions that may result in the voidance of the Letter under Sections 58.10(e)(1)-(7) of the Act (415 ILCS 5/58.10(e)(1)-(7)) include, but shall not be limited to:
 - a) Any violation of institutional controls or the designated land use restrictions;
 - b) The failure to operate and maintain preventive or engineering controls or to comply with any applicable groundwater monitoring plan;
 - c) The disturbance or removal of contamination that has been left in-place in accordance with the Remedial Action Plan. Access to soil contamination may be allowed if, during and after any access, public health and the environment are protected consistent with the Remedial Action Plan;
 - d) The failure to comply with the recording requirements for this Letter:
 - e) Obtaining the Letter by fraud or misrepresentation;
 - f) Subsequent discovery of contaminants, not identified as part of the investigative or remedial activities upon which the issuance of the Letter was based, that pose a threat to human health or the environment;
 - g) The failure to pay the No Further Remediation Assessment Fee within forty-five (45) days after receiving a request for payment from the Illinois EPA;
 - h) The failure to pay in full the applicable fees under the Review and Evaluation Services Agreement within forty-five (45) days after receiving a request for payment from the Illinois EPA.
- 9) Pursuant to Section 58.10(d) of the Act, this Letter shall apply in favor of the following persons:
 - a) Dana Morey;
 - b) The owner and operator of the Remediation Site;
 - c) Any parent corporation or subsidiary of the owner of the Remediation Site;

7) Further information regarding this Remediation Site can be obtained through a written request under the Freedom of Information Act (5 ILCS 140) to:

Illinois Environmental Protection Agency Attn: Freedom of Information Act Officer Bureau of Land-#24 1021 North Grand Avenue East Post Office Box 19276 Springfield, IL 62794-9276

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 - c) The disturbance or removal of contamination that has been left in-place in accordance with the Remedial Action Plan. Access to soil contamination may be allowed if, during and after any access, public health and the environment are protected consistent with the Remedial Action Plan:
 - d) The failure to comply with the recording requirements for this Letter;
 - e) Obtaining the Letter by fraud or misrepresentation;
 - f) Subsequent discovery of contaminants, not identified as part of the investigative or remedial activities upon which the issuance of the Letter was based, that pose a threat to human health or the environment;
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- 9) Pursuant to Section 58.10(d) of the Act, this Letter shall apply in favor of the following persons:
 - a) Dana Morey:
 - b) The owner and operator of the Remediation Site;
 - c) Any parent corporation or subsidiary of the owner of the Remediation Site;

- d) Any co-owner, either by joint-tenancy, right of survivorship, or any other party sharing a relationship with the owner of the Remediation Site;
- e) Any holder of a beneficial interest of a land trust or inter vivos trust, whether revocable or irrevocable, involving the Remediation Site;
- f) Any mortgagee or trustee of a deed of trust of the owner of the Remediation Site or any assignee, transferee, or any successor-in-interest thereto;
- g) Any successor-in-interest of the owner of the Remediation Site;
- h) Any transferee of the owner of the Remediation Site whether the transfer was by sale, bankruptcy proceeding, partition, dissolution of marriage, settlement or adjudication of any civil action, charitable gift, or bequest;
- i) Any heir or devisee of the owner of the Remediation Site;
- j) Any financial institution, as that term is defined in Section 2 of the Illinois Banking Act and to include the Illinois Housing Development Authority, that has acquired the ownership, operation, management, or control of the Remediation Site through foreclosure or under the terms of a security interest held by the financial institution, under the terms of an extension of credit made by the financial institution, or any successor-in-interest thereto; or
- k) In the case of a fiduciary (other than a land trustee), the estate, trust estate, or other interest in property held in a fiduciary capacity, and a trustee, executor, administrator, guardian, receiver, conservator, or other person who holds the remediated site in a fiduciary capacity, or a transferee of such party.
- 10) This letter, including all attachments, must be recorded as a single instrument within forty-five (45) days of receipt with the Office of the Recorder of DuPage County. For recording purposes, the Illinois EPA Site Remediation Program Environmental Notice attached to this Letter should be the first page of the instrument filed. This Letter shall not be effective until officially recorded by the Office of the Recorder of DuPage County in accordance with Illinois law so that it forms a permanent part of the chain of title for the Morey Corporation property.
- 11) Within thirty (30) days of this Letter being recorded by the Office of the Recorder of DuPage County, a certified copy of this Letter, as recorded, shall be obtained and submitted to the Illinois EPA to:

Robert E. O'Hara
Illinois Environmental Protection Agency
Bureau of Land/RPMS
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

12) In accordance with Section 58.10(g) of the Act, a No Further Remediation Assessment Fee based on the costs incurred for the Remediation Site by the Illinois EPA for review and evaluation services will be applied in addition to the fees applicable under the Review and Evaluation Services Agreement. Request for payment of the No Further Remediation Assessment Fee will be included with the billing statement.

If you have any questions regarding this correspondence, you may contact the Illinois EPA project manager, Steve McCaslin at 217-557-8085.

Sincerely

Remedial Project Management Section

Division of Remediation Management

Bureau of Land

Attachments(3):

Illinois EPA Site Remediation Program Environmental Notice

Site Base Map

Property Owner Certification of No Further Remediation Letter under the

Site Remediation Program Form

cc: Tom Brecheisen

Pioneer Environmental, Inc. 1000 N. Halsted, Suite 202 Chicago, IL 60622

bcc:

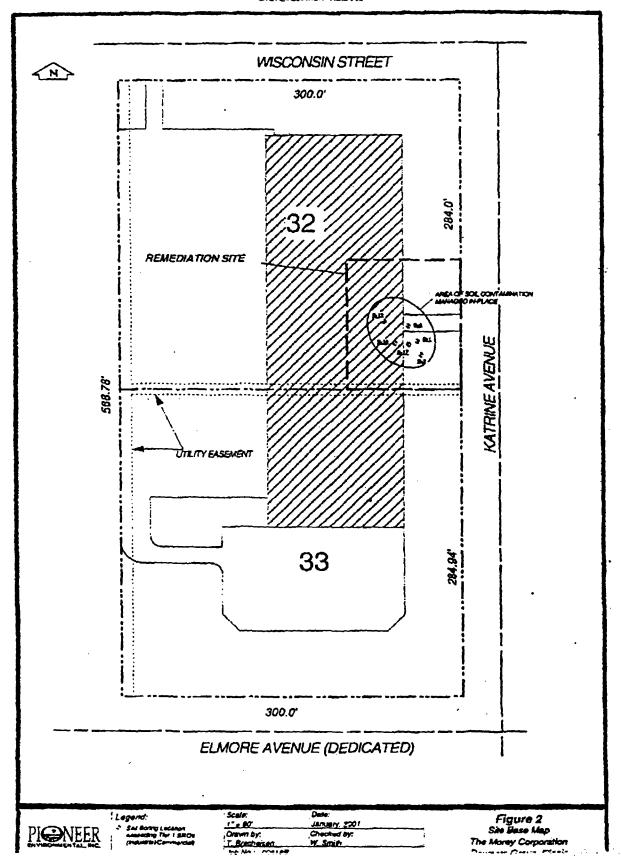
Records Unit-Bob O'Hara Ginger Miller

SITE REMEDIATION PROGRAM TABLE A: REGULATED SUBSTANCES OF CONCERN 0430305029 - MOREY CORPORATION

Volatile Organic Compounds

CAS No.	Compound Name
74-87-3	Chloromethane
74-83-9	Bromomethane
75-01-4	Vinyl Chloride
75-00-3	Chloroethane
	Methylene Chloride
75-09-2	
67-64-1	Acetone
75-15-0	Carbon Disulfide
75-35-4	1,1-Dichloroethene
75-34-3	1,1-Dichloroethane
540-59-0	1,2-Dichloroethene (total)
67-66-3	Chloroform
107-06-2	1,2-Dichloroethane
78-93-3	2-Butanone
71-55-6	1,1,1-Trichloroethane
56-23-5	Carbon Tetrachloride
75-27-4	Bromodichloromethane
78-87-5	1,2-Dichloropropane
10061-01-5	cis-1,3-Dichloropropene
79-01-6	Trichloroethene
124-48-1	Dibromochloromethane
79-00-5	1,1,2-Trichloroethane
71-43-2	Benzene
10061-02-6	Trans-1,3-Dichloropropene
75-25-2	Bromoform
108-10-1	4-Methyl-2-Pentanone
591-78-6	2-Hexanone
127-18-4	Tetrachloroethene
108-88-3	Toluene
79-34-5	1,1,2,2-Tetrachloroethane
108-90-7	Chlorobenzene
100-41-4	Ethylbenzene
100-42-5	Styrene
1330-20-7	Xylenes (total)

SITE BASE MAP 0430308029 • DUPAGE COUNTY DOWNERS GROVE / 2850 WIECONSIN STREET SITE REMEDIATION PROGRAM





ASSESSMENT • ENGINEERING • REMEDIATION

FOCUSED SITE INVESTIGATION & REMEDIAL ACTION COMPLETION REPORT (Addendum)

The Morey Corporation 2659 Wisonsin Street Downers Grove, Illinois

Prepared For:

MC Holdings, Inc. 100 Morey Drive Woodridge, Illinois 60517 Attn: Mr. Dana Morey

Prepared By:

Pioneer Environmental, Inc. 1000 North Halsted Street, Suite 202 Chicago, Illinois 60622 (312) 587-1021

Date Submitted:

January 23, 2001

Pioneer Project # 00618B

Illinois Environmental Protection Agency Bureau of Land Remedial Project Management Section 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

FOR ILLINOIS EPA USE: LOG NO.

Site Remediation Program Form (DRM-2) (To Be Submitted with all Plans and Reports)

I. Site Identification:		
Site Name: The Morey Corporation		
Street Address: 2659 Wisconsin Street		
City: Downers Grove Illinots Inver	entory I. D. Number: 0430305029	
IEMA Incident Number: NA		
II. Remediation Applicant:		
Applicant's Name: Dana Morey	Company: MC Holdings, Inc.	
Street Address: 100 Morey Drive		
	ZIP Code: 60517 Phone: 630.754.2124	
	duate the attached project documents in accordance with the terms and conditions of the enting regulations, and the review and evaluation services agreement. Date: 1-18-0/	
III. Contact Person:		
Contact's Name: Tom Brecheisen	Company: Pioneer Environmental, Inc.	
Street Address: 1000 N. Halsted, 202		
City: Chicago State: IL	ZIP Code: 60622 Phone: 312.587.1021	
IV. Review & Evaluation Licensed P	Professional Engineer ("RELPE"), if applicable:	
RELPE's Name:	Company:	
Street Address:		
City: State:	ZIP Code: Phone:	
Registration Number:	License Expiration Date:	

All information submitted is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines. The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your plan(s) or report(s) being rejected. This form has been approved by the Forms Management Center.

IL 532 2547 LPC 566 Feb-2000

V.	Pro	ject	Documents	Being	Submitted:
----	-----	------	-----------	-------	------------

Document Title: FSI/RACR Addendum	Date of Preparation of Plan or Report: 1-23-01
Prepared by: Pioneer Environmental, Inc. Prepared for:	MC Holdings, Inc.
Type of Document Submitted:	Sampling Plan
Site Investigation Report - Comprehensive	Health and Safety Plan
☑ Site Investigation Report - Focused	Community Relations Plan
Remediation Objectives Report-Tier for 2	☐ Risk Assessment
Remediation Objectives Report-Tier 3	☐ Contaminant Fate & Transport Modeling
☐ Remedial Action Plan	☐ Environmental Remediation Tax Credit - Budget Plan Review
☑ Remedial Action Completion Report	Other: RACR Addendum
Document Title: Date	e of Preparation of Plan or Report:
Prepared by: Prepared	d for:
Type of Document Submitted:	☐ Sampling Plan
Site Investigation Report - Comprehensive	Health and Safety Plan
Site Investigation Report - Focused	Community Relations Plan
Remediation Objectives Report-Tier 1 or 2	☐ Risk Assessment
Remediation Objectives Report-Tier 3	☐ Contaminant Fate & Transport Modeling
Remedial Action Plan	☐ Environmental Remediation Tax Credit - Budget Plan Review
Remedial Action Completion Report	Other:
Document Title: Date	e of Preparation of Plan or Report:
	e of Preparation of Plan or Report:
Prepared by: Prepared	•
Prepared by: Prepared Type of Document Submitted:	d for:
Prepared by: Prepared	d for:
Prepared by: Prepared Type of Document Submitted: Site Investigation Report - Comprehensive	d for:
Prepared by: Prepared Type of Document Submitted: Site Investigation Report - Comprehensive Site Investigation Report - Focused	d for: Sampling Plan Health and Safety Plan Community Relations Plan
Prepared by: Prepared Type of Document Submitted: Site Investigation Report - Comprehensive Site Investigation Report - Focused Remediation Objectives Report-Tier 1 or 2	d for: Sampling Plan Health and Safety Plan Community Relations Plan Risk Assessment
Prepared by: Prepared Type of Document Submitted: Site Investigation Report - Comprehensive Site Investigation Report - Focused Remediation Objectives Report-Tier 1 or 2 Remediation Objectives Report-Tier 3	d for: Sampling Plan Health and Safety Plan Community Relations Plan Risk Assessment Contaminant Fate & Transport Modeling
Prepared by: Prepared Type of Document Submitted: Site Investigation Report - Comprehensive Site Investigation Report - Focused Remediation Objectives Report-Tier 1 or 2 Remediation Objectives Report-Tier 3 Remedial Action Plan	d for:
Prepared by: Prepared Type of Document Submitted: Site Investigation Report - Comprehensive Site Investigation Report - Focused Remediation Objectives Report-Tier 1 or 2 Remediation Objectives Report-Tier 3 Remedial Action Plan Remedial Action Completion Report	Sampling Plan ☐ Health and Safety Plan ☐ Community Relations Plan ☐ Risk Assessment ☐ Contaminant Fate & Transport Modeling ☐ Environmental Remediation Tax Credit - Budget Plan Review Other: ☐ of this plan(s) or report(s) were performed under my direction, and this ed by me, and to the best of my knowledge and belief, the work described the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code



1000 North Halsted Street, Suite 202 • Chicago, Illinois 60622 312.587.1021 • Fax: 312.587.8210

January 23, 2001

Illinois Environmental Protection Agency Voluntary Site Remediation Unit Bureau of Land 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

Attn: Steve McCaslin

Re: FSI / RACR Addendum

0430305029 - DuPage County

2659 Wisconsin Street Downers Grove, Illinois Pioneer Project No. 00618B

Dear Mr. McCaslin:

As you requested, Pioneer Environmental, Inc. (Pioneer) has performed additional assessment work at the above captioned site in connection with our Focused Site Investigation & Remedial Action Completion Report (FSI/RACR), dated November 8, 2000, which was submitted to the Site Remediation Program for review and evaluation. Based on our telephone conversations that took place after your review of the FSI/RACR, it was agreed that two additional soil borings would be advanced in order to further define the horizontal extent of contamination to the south, the vertical extent of contamination in the source area, and to assess the contaminant conditions directly beneath the former floor drain discharge pipe. In addition, a Tier 2 Groundwater Evaluation was performed as you suggested to expedite the review and subsequent closure of this site, and the proper disposal of contaminated soil that was previously excavated from beneath the floor drain discharge pipe (i.e. source area) was also conducted. Thus, this letter discusses the procedures and results of these requested activities and is intended to serve as an addendum to Pioneer's original FSI/RACR (Addendum).

Pioneer mobilized to the site and advanced two additional soil borings, B-16 and B-17, on January 2, 2001. These borings were placed in the specific locations discussed by Pioneer and the Agency prior to mobilization to the site. The soil sampling procedures were performed in accordance with Pioneer's Standard Protocol for Subsurface Sampling as described in the original FSI/RACR and in Attachment 1 of this Addendum. The soil boring locations are shown on Figure 1 and soil boring logs are included in Attachment 1.

In order to obtain the additional data requested, Pioneer selected three soil samples from the two boring locations for analytical testing. The selected samples were then shipped overnight to an independent laboratory under standard chain-of-custody procedures, and submitted for analysis

FSI / RACR Addendum 2659 Wisconsin Street Downers Grove, Illinois January 23, 2001 Pioneer Project No. 00618B Page 2 of 3

of the appropriate targeted compounds (VOCs). The results of the laboratory analyses are summarized in Table No. 1 and copies of the laboratory reports are included in Attachment 2.

The results indicated that all contaminant concentrations detected were below the Tier 2 SROs established for the site (Appendix H of FSI/RACR). It should be noted the Tier 2 SROs calculated for the site were based on the Mass-Limit Equations (S-26, S-27 & S-28) for the inhalation exposure route and the soil component of groundwater ingestion exposure route, found in Appendix C, Table A of TACO. The results of this recent sampling event confirm that maximum contaminant concentrations detected at the site are the same as those shown in Table 4.5.1 of the original FSI/RACR.

As we also discussed, in order to expedite the overall review and closure of the site, a Tier 2 Groundwater Evaluation, pursuant to 35 IAC 742.805, is presented herein as opposed to the Tier 3 approach originally presented in the FSI/RACR. Pioneer performed the weighted average calculation as outlined in 35 IAC 742.805(c). According to Table F of Appendix A of TACO, three similar-acting carcinogenic compounds affect the liver: tetrachloroethylene (PCE), trichloroethylene (TCE), and vinyl chloride (VC). Since other target organs listed in Table F are affected by fewer than three similar-acting compounds, the weighted average calculation for liver will yield the most conservative value.

Since no actual groundwater data was collected from the site for use in calculating the weighted average and as we discussed, Pioneer predicted groundwater concentrations from maximum detected soil concentrations using Equation R-14 (Appendix H of FSI/RACR) and then calculated Tier 2 Groundwater Remediation Objectives (GROs) using Equation R-26. Given the fact that an institutional control will eliminate any exposure point on the remediation site, Pioneer used Equation R-26 to "back calculate" allowable source area concentrations to ensure Tier 1 Class I GROs will be achieved at the eastern property boundary, the nearest exposure point. Tier 2 GRO calculations are included in Attachment 3. The results of these calculations were used to determine the weighted average for liver and are summarized as follows:

Tier 2 GROs / Weighted Average Parameters

сос	Maximum Soil Concentration (Actual)	Predicted Groundwater Concentration (x _e)	Calculated Tier 2 GROs (CUOx ₄)		
Tetrachloroethylene	110,000	56,075	4,860,000		
Trichloroethylene	8,000	3,897	20,800		
cis-1,2-Dichloroethylene	3,300	5,457	24,800		
Vinyl Chloride	46	91	709		
Methylene Chloride	40	118	2.03(10 ²⁵)		

All values in parts per billion (ppb).

FSI / RACR Addendum 2659 Wisconsin Street Downers Grove, Illinois January 23, 2001 Pioneer Project No. 00618B Page 3 of 3

Using predicted groundwater concentrations as x_a values and the Tier 2 GROs as the $CUOx_a$ values, as outlined in Section 742.805(c)(1), the following equation was solved using the parameters listed above.

$$W_{ave} = \frac{x_1}{CUOx_1} + \frac{x_2}{CUOx_2} + \dots \frac{x_n}{CUOx_n}$$

The result of this calculation yielded a W_{ave} value of 0.327. Since this value is less than 1.0, remediation objectives are met for the above listed chemicals pursuant to Section 742.805(c)(1)(i). The calculation is included as Attachment 3.

The four drums of contaminated soil, which were previously excavated from beneath the floor drain discharge pipe, have been disposed of as hazardous waste. A copy of the hazardous waste manifest is included as Attachment 4. Finally, per your request, Pioneer submitted a revised Site Base Map (Figure 2) and ascertained that the site operated for approximately 35 years.

Pioneer hopes this information sufficiently addresses your comments and can allow the review and subsequent closure of this site to proceed. Pioneer appreciates your time in this matter and if you have any questions regarding any of the information presented herein, please contact me at (312) 587-1021. Further, any efforts that can be made to expedite your review of this submittal would be greatly appreciated.

Sincerely,

PIONEER ENVIRONMENTAL, INC.

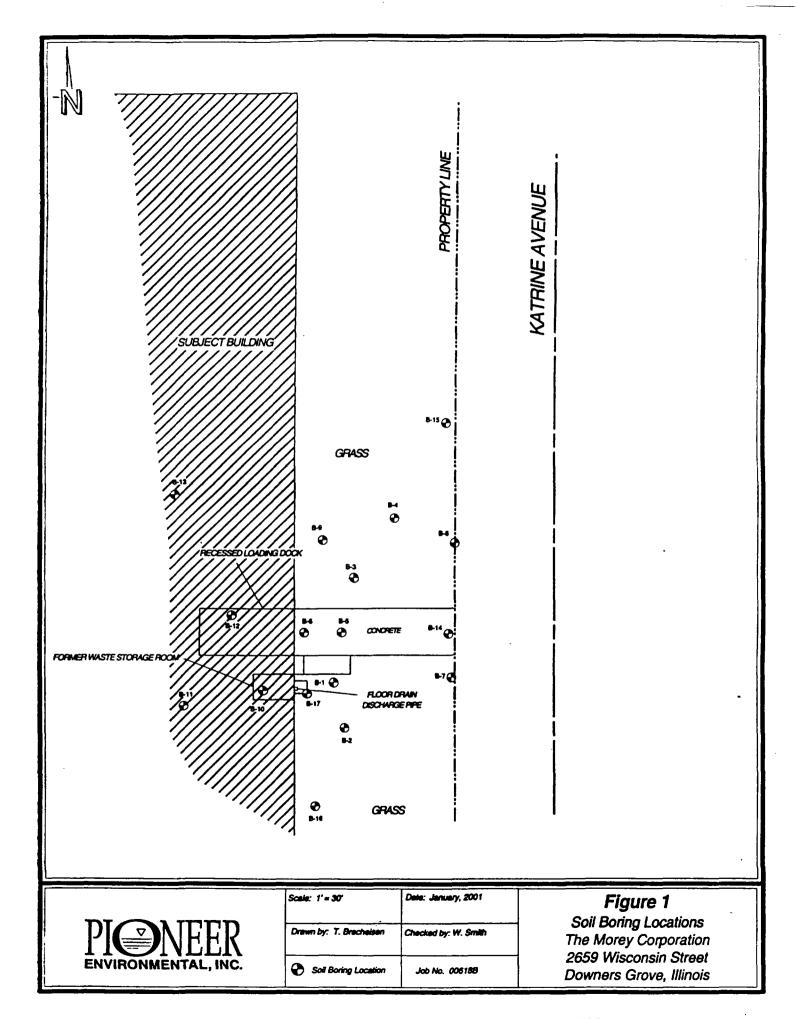
homen A. Bushins

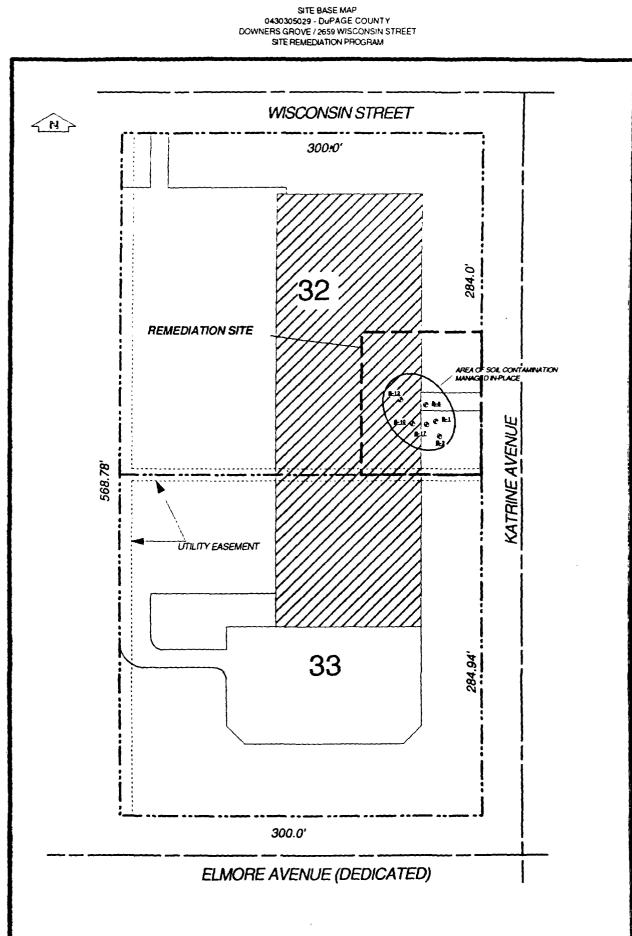
Thomas A. Brecheisen

Project Manager

Attachments

.Cc: Dana Morey, MC Holdings, Inc.





Legend:

Scale: 1" = 80' January, 2001 Drawn by: Checked by: T. Brecheisen Job No.: 00618B W. Smith

Figure 2 Site Base Map The Morey Corporation Downers Grove, Illinois

TABLE NO. 1 (page 1 of 2) Soil Sample Analytical Results: Illinois VOCs The Morey Corporation 2659 Wisconsin Street / Downers Grove, Illinois

											Tier 1 Selt Remediation Objectives (Tier 1 SROs) Industrial/Commercial Property Use*						
											{	Route Spec	ific Values	Soll Comp Groundwate		Sell Saturation	
											industriai -	ndustrial - Commercial Construction Worker			Equiv	T Route	Limit
ANALYTE	B-1 (3'-47)	8-1 (7-12)	B-2 (6'-9')	3-3	B-5 (6'-9')	8-6 (3-47)	8-4	2-7 (3'-6')	B-10 (4'-4')	8-10	Ingention	Inhalation	Ingestion	Inhalusion	Class I	Class II	c_
2-Butanene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<(0.0	<10.0							
Merkyl Isobutyl betone	<10.0	<10.0	<10.0	<10.0	20	<10.0	<10.0	<10.0	<10.0	<10.0							
4-Meshyl-2-Pentamene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0			•				
1.1-Dichloroethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,000,000	1,700,000	200,000,000	130,000	23,000	110,000	1,700,000
1,1-Dichlorgethene	<10.0	<10.0	<100	<10.0	<10.0	10	<10.0	<10.0	<10.0	<10.0	18,000,000	1,500,000	1.800.000	1.500.000	60.0	300	1,500,000
1,2-Dibrume-3-chloroprupane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	4,000	17,000	89,000	110	2.0	2.0	1,400,000
1.2-Dibramachane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	70.0	320	1,500	450	0.4	4.0	2,800,000
1,2-Dichloryethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	63,000	700	1,400,000	990	20.0	100	1,000,000
1.2-Dichleruprapene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	84,000	23,000	1,800,000	500	30.0	150	1,100,000
1,3-Dichloropropene (setal)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	<10.0	33,000	230	610,000	330	4.0	20.0	1,400,000
1.1.1-Trichlargethane	<10.0	<10.0	<100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	-	1,200,000		1,200,000	2,000	9.600	1,200,000
1,1,2-Trichlargeshane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	\$,200,000	1,800,000	8,200,000	1,800,000	20.0	300	1,800,000
1,1,2,2-Terrachloroethana	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	-						
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,000,000	100,000,000	200,000,000	100,000,000	16,000	16,000	100,000,000
Benzene	<10.0	<10.0	<)0.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,000	1,500	4,300,000	2,100	30.0	170	870,000
Bromodichloromethans	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	92,000	3,000,000	2,000,000	3,000,000	600	600	3,000,000
Bremolores	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	720,000	100,000	16,000,000	140,000	800	800	1,900,000
-	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2,900,000	15,000	1,000,000	3,900	200	1,200	3,200,000
Between	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,000,000	10,000,000	200,000,000	10,000,000	17,000	17,000	10,000,000
Cerbon Disublide	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,600,000	720,000	20,000,000	9,000	32,000.0	160,000	720,000
Carbon Tetrachieride	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	44,000	640	410,000	900	70.0	330	1,100,000
Chlorobensene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	41,000,000	210,000	4,100,000	1,300	1,000	4.500	680,000
Chlorodibramemethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	41,000,000	1,300,000	41,000,000	1,300,000	400	400	1,300,000
Chlorosthane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0					1		
Chieroform	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	940,000	540	2,000,000	760	600	2,900	2,900,000
Chieromethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0							
cis 1,2-Dichtornethene	2,600	1,000	<10.0	<10.0	<10.0	3,300	30	<10.0	14	49	20,000,000	1,200,000	20,000,000	1,200,000	400	1,100	1,200,000
Ethylhopson	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,000,000	400,000	20,000,000	58,000	13,000	19,000	400,000
Marketon Chierida	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	760,000	24,000	12,000,000	34,000	20.0	200	2,400,000
Street	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	410,000,000	1,500,000	41,000,000	430,000	4.000	18,000	1,500,000
Tetrachiaruethene	110,000	<10.0	160	<10.0	<10.0	1,000	55	<10.0	\$7,000	5,000	110,000	20,000	2,400,000	28,000	60.0	300	240,000
Toluene	<10.0	<10.0	<10.0	<10.0	<10.0	14	<10.0	<10.0	<10.0	<10.0	410,000,000	650,000	410,000,000	42,000	12.000	29,000	650,000
rems 1,2-Dichleronhene	35	22	<10.0	<10.0	<10.0	91	<10.0	<10.0	<10.0	<10.0	41,000,000	3,100,000	41,000,000	3,100,000	700	3.400	3,100,000
Trichloreshear	1,000	<10.0	<10.0	<10.0	<10.0	1,000	10	<10.0	45	19	520,000	8,900	1,200,000	12,000	60.0	300	1,300,000
Viryl Accept	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1,000,000,000	1,600,000	200,000,000	10,000	170,000.0	170,000.0	2,700,000
Vinyl Chieride	16	<10.0	<10.0	<10.0	<10.0	46	<10.0	<10.0	<10.0	<10.0	3,000	60.0	65,000	80.0	10.0	70.0	1,200,000
Xylenes (smal)	<0.0	<00.0	<0.0	<30.0	<30.0	400	<30.0	<30.0	<30.0	13	1,000,000,000	410,000	410,000,000	410.000	150,000	150,000	410,000

Note

Results listed in parky (parts per billion-oph) EPA sest method SW846, 8260/5035

Shaded/Belded cell indicates concentration detected above most stringent Tier I SRO

[&]quot;<" indicates not detected at esseed detection limits

[&]quot;--" (adicates value not available

^{**} Purpount to 35 IAC 742 - Threet Approach to Corrective Action Objectives

MOR 000021

TABLE NO. 1 (page 2 of 2) Soil Sample Analytical Results: Illinois VOCs The Morey Corporation 2659 Wisconsin Street / Downers Grove, Illinois

		Ther I Soil Remediation Objection (Ther I SROv) Industrial/Commercial Property Upp*													
ANALYTE		8-12 (6-4)	9-13 (6-47)	B-13 (6'-4')	B-14 (6-9)	B-16 (6'-9')	\$-17 (6-9)	8-17 (15'-18')		ic Valuet	act		Soll Component of Groundwater Ingestion		
	B-11 (4'-4')								Industrial - Commercial		Construction Worker		Exposure Rouse		Link
									Ingestion	Inhelation	Ingestion	Inhalmien	Class I	Class 11	C.
- Autores		<10.0	<10.0	<10.0	<10.0	<250	250	250			f		ļ		
- Mesenene - Hesenene	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10			{·:	:	·=	·	
-rre-samen -Methyl-2-Pennanone	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10			{ :	 :) — " ——		"-
I-Dichlorumhane	<10.0 	<10.0	<10.0	<10.0	<10.0	<10	- 10 -	<10	200,000,000	1,700,000	200,000,000	130,000	23,000	110,000	1,700,00
1-Dichleroethene	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10	18.000.000	1,500,000	1,100,000	1,500,000	60.0	300	1,500,00
2-Dibrama-3-chloropropuse	<10.0	<10.0	<10.0	<10.0	<10.0	<18	<18	<18	4,000	17,000	19,000	110	2.0	2.0	1,400,00
2-Dibrama-3-ruoropropune 2-Dibrama-shane	<10.0	<10.0	<100	<10.0	<10.0	<10	<10	<10	70.0	320	1,300	450	0.4	4.0	2,800,00
2-Dichleroethane	<100 -<100	<10.0	<10.0	<10.0	<10.0	<10	<10	<10	63,000	700	1.400.000	990	20.0		1.000.00
2-Dichioreomene		<10.0	<10.0	<10.0	<10.0	<10	<10	<10	84,000	23,000	1,800,000	500	30.0	150	1,100,00
3-Dichlereprepent (tetal)	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10	33,000	230	610,000	330	4.0	20.0	1,400,00
5-Dictionaproprint (mm)	. <10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10		1,200,000	0,000	1,200,000	2.000	9,600	1,200,00
1,1-1 ricingrocenane 1.2-Trichloroethone	<10.0		<10.0	<10.0	<10.0	<10	<10	<10	8.200,000	1,800,000	8,200,000	1,00,000	20.0	300	1,800,00
1,2,7 rgmarvemane 1,2,2-Tearachioroethane	_ <10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10							
	_<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10	200,000,000	100,000,000	200,000,000	100,000,000	16.000	16,000	100.000.0
criene .	<u> </u>	<10.0	<10.0	<10.0	<10.0	<10	<10	< 10	200,000	1.500	4,300,000	2,100	30.0	170	870,000
manne.	< <u>10.0</u>		<10.0	<10.0	<10.0	<10	<10	<10	92,000	3.000.000	2,000,000	3,000,000	600		
romodichleromethene	<10.0	<10.0				<10			720,000	100,000	16,000,000	140,000		600	3,000,00
r omaform	<10.0_	<10.0	_<10.0	<10.0	<10.0		<10	<10	2,900,000	15,000	1.000,000		800	800	1,900,00
romomethane	<10.0	<u></u>	<10.0	<10.0	<10.0	<10	<10_	<10	200,000,000	10,000,000	200,000,000	3,900	200	1,200	3,200,00
manal .	<10.0	<10.0	<10.0	<10.0	<10.0	<980	<980_	<980	200,000,000	720,000	20,000,000	9.000	17,000	17,000	10,000,0
arbon Dissifide	<10.0	<10.0	<10.0	<10.0	<10.0	O</td <td><10</td> <td><u><10</u> .</td> <td></td> <td></td> <td></td> <td></td> <td>32,000.0</td> <td>160,000</td> <td>720,000</td>	<10	<u><10</u> .					32,000.0	160,000	720,000
arbon Tetrachioride	{ _ <10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10	44,000	640	410,000	900	70.0		1,100,00
Morobenzene	<10.0	<10.0	<10.0	<10.0	<10.0	0</td <td><10</td> <td><10</td> <td>41,000,000</td> <td>210,000</td> <td>4,100,000</td> <td>1,300</td> <td>1,000</td> <td>6,500</td> <td>680,000</td>	<10	<10	41,000,000	210,000	4,100,000	1,300	1,000	6,500	680,000
Moradibrunamethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10	41,000,000	1,300,000	41,000,000	1,300,000	400	400	1,300,00
Moroeshane	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10				<u></u>	l		}:·
Meraform	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10	940,000	540	2,000,000	760	600	2,900	2,900,00
Moremethane	<10.0		<10.0	<10.0	<10.0	<10	<10	<u> <10</u>				<u> </u>	l	<u>-</u>	
is 1,2-Dichloraethene	<10.0	<10.0	<10.0	<10.0	<10.0	<10	1,500	<u> <10</u>	20,000,000	1,200,000	20,000,000	1,200,000	400	1,100	1,200,00
thylbrazene	<10.0	<10.0	<10.0	<10.0	<10.0	14	<10_	<10	200,000,000	400,000	20,000,000	58,000	13,000	19,000	400,000
Inhylene Chloride	<10.0		<10.0	<10.0	<10.0	<10	<10	<10	760,000	24,000	12,000,000	34,000	20.0	200	2,400,00
Tyrene	<10.0	<10.0	<10.0	<10. <u>0</u>	<10.0	<10	<10_	<10	410,000,000	1,500,000	41,000,000	430,000	4,000	18,000	1,500.00
etrachlaraethene	<10.0	<10.0	<10.0	<10.0	<10.0	<10	58,000	<10	110,000	20,000	2,400,000	28,000	60.0	300	240,000
eluene	<10.0	<10.0	<10.0	<10.0	<10.0	58	19	<10	410,000,000	650,000	410,000,000	42,000	12,000	29,000	650,000
wu 1,2-Dichieroethene	<10.0	<10.0	<10.0	<10.0	<10.0	<10	37	<10	41,000,000	3,100,000	41,000,000	3,100,000	700	3,400	3,100,00
richlararthene	<10.0	<10.0	<10.0	<10.0	<10.0	<10	1,600	<10	520,000	8,900	1,200,000	12,000	60.0	300	1,300,00
Inyl Acctor	<10.0	<10.0	<10.0	<10.0	<10.0	<53	্য	ব্য	1,000,000,000	1,600,000	200,000,000	10,000	170,000.0	170,000.0	2,700,00
Invi Chloride	<10.0	<10.0	<10.0	<10.0	<10.0	<10	<10	<10	3,000	60.0	65,000	80.0	10.0	70.0	1,200,00
ylenes (mail)	<30.0	<30.0	<30.0	ر0.0	<30.0	<30	20	<30	1,000,000,000	410,000	410,000,000	410.000	150,000	150,000	410,000

Results listed in µg/kg (parts per billion-ppb) EPA test method \$W846, \$260/5035

Shaded/Belded cell indicates concentration detected above most stringent Tier I SRO

[&]quot;<" Indicates not detected at stated detection limits

[&]quot;-" indicates value not available

[&]quot; Pursuant to 35 IAC 742 - Tlored Approach to Corrective Action Objectives

ATTACHMENT 1

Pioneer Protocol for Subsurface Soil Sampling

Soil Boring Logs

PROTOCOL FOR SUBSURFACE SOIL SAMPLING

Subsurface samples are collected by employing various soil boring techniques based on certain site specific conditions. Soil borings are performed using a Hollow or Solid Stem (site specific) auger with split-spoon sampling techniques, a hydraulic percussive split-spoon sampler, a percussive Macro-Core® barrel sampler, and/or a stainless steel hand auger. The soil sampling activities are conducted in accordance with American Society of Testing and Materials (ASTM) standards (ASTM:D 1586). Soil samples are collected with a stainless steel hand auger, a split-spoon sampler, and/or a Macro-Core® sampler at 2-3 foot intervals depending on the specific method used. In the split-spoon sampling procedures, a split-barrel sampler having either a 2-inch or 1-3/16 inch outside diameter, an inside diameter of 1-3/8 or 7/8 inches, and a length of 2.5 or 3 feet is driven into the soil to collect a representative and undisturbed sample. In the Macro-Core® barrel sampling technique, a stainless steel barrel having a 2-inch outside diameter, an inside diameter of 1-1/2 inches, and a length of 2 or 3 feet is fitted with a PVC liner and is driven into the soil to collect a representative and undisturbed sample.

The drilling is directed by a Pioneer Environmental Field Project Geologist/Engineer, who logs geologic materials encountered during drilling, field screens auger cuttings and soil samples, observes the drilling activities, and supervises sample collection. Each sample is examined in the field for odor and visual evidence of hydrocarbon or other organic contamination. The field observations are noted in the soil boring logs that are included in the Appendices.

A representative portion of each sample is placed into an unused, air-tight plastic bag which is sealed and dedicated to that discrete sample. The sample is allowed to achieve a constant temperature and the headspace above each sample is screened for volatile organic compounds (VOCs) using either a Photovac MP-1000 handheld air monitor / photoionization detector (PID) or a Photovac IS 3000 handheld air monitor / flame ionization detector (FID), depending on the nature of the targeted contaminants. The PID/FID are devices that are sensitive to a variety of VOCs. The headspace is screened by inserting the PID/FID probe into the space above the soil and recording the maximum reading of the instrument. The results of the headspace screening are also listed on the soil boring logs.

When soil samples will be laboratory tested for VOCs, one of two field sampling methods are used as required by US EPA's SW-846 Method 5035. 1) A representative portion of the sample collected in the field is placed in an EnCoreTM sampler, or equivalent, immediately after collection, with the appropriate quantity and volume of the containers determined by the scope of work and field conditions. The EnCoreTM samplers, or equivalent, are delivered to the laboratory within 48 hours of sample collection. 2) An appropriate weight of a representative portion of the sample collected in the field is placed in laboratory-provided glassware, immediately after collection, and then the appropriate preservative is added, either sodium bisulfate-for samples with estimated VOC concentrations less than 200 ppb; or methanol-for samples with estimated VOC concentrations greater than 200 ppb.

Any soil samples chosen for analysis are packed in appropriate containers, properly labeled, and shipped in a cooler on ice via a delivery service overnight to an independent laboratory under standard chain-of-custody procedures. Samples are selected based on the scope of work, field observations (i.e. visual/odor observations, elevated PID readings, etc.), other site specific conditions, and the judgment of the Pioneer Field Project Geologist/Engineer.

Drill cuttings and liquids generated are left at the borehole. All boreholes are decommissioned in accordance with applicable Illinois Department of Public Health guidelines. When required, these spoils are contained in 55 gallon Type 17H drums. Decontamination procedures for the drilling equipment consists of steam cleaning the augers after each boring using a biodegradable detergent and high-pressure steam rinse. The split-spoon samplers are decontaminated between each sample interval by washing in a solution of Alconox and water, and triple rinsing with clean heated water.

Any deviations to or modifications of this standard protocol will be described on a site by site basis.

DI		מת		Boi	ring Log	Boring No.: B-16
ENVIRO) NMENTAL	LK Linc.	Site:	2659	Morey Corporation 9 Wisconsin Street vners Grove, Illinois	Date Begin: 1/02/01 Date End: 1/02/01
Sample Recovery	FID (ppm)	Sample	Depth Feet	Lithology	Description	Notes
75%	0.0		_	-	Grade = Topsoil (6") Brown SILTY CLAY with trace sand and gravel Firm, Moist	
100%	0.0		- 3 -	-	Brown SILTY CLAY mottled reddish-brown with trace sand and gravel Firm, Moist	No Odor No Visual
100%	0.3		- 6 - -	-	Gray SILTY CLAY with trace sand and gravel Firm, Moist	
100%	0.0	*****	- 9 -	-	Gray SILTY CLAY with trace gravel Firm, Moist	
			— 12 —	-	End of Boring @ 12 feet BSG	
			15			
			— 18 —			
	interval de	notes sample Geoprobe M		for laboratory analy	rsis Driller: Pred	CO Earthprobe 200 Trag Vrhovac Brecheisen
Water Depth	While Dri	lling: NA	Water Dep	oth After Drilling: N		Page 1

DIC		תים מים		Boı	ring L	og		Boring No.: B-17
ENVIR	NMENTAL	LK	Site:		-	Corporation onsin Street		Date Begin: 1/02/01
2,1101111		-, III O.				rove, Ilinois		Date End: 1/02/01
Sample Recovery	FID (ppm)	Sample	Depth Feet	Lithology		Description		Notes
75%	0.0		- -		SILT and a	le = Topsoil (6") Brow 'Y CLAY with trace s gravel , Loose, Moist	vn and	
100%	0.0		- 3 - 		trace	vn SILTY CLAY with sand and gravel , Moist	1	No Odor No Visual
100%	5.2		- 6 - 		Stiff,	vn SILTY CLAY Moist		
100%	0.0				дгау	n SILTY CLAY mot	iled	
100%	3.5		- 12 			ay SILTY CLAY m, Moist		No Odor No Visual
75%	0.0		- 15 -			SILTY CLAY , Moist		
75%	0.0		18 21		sand Firm	SILTY CLAY with tand gravel, Moist		
100%	0.0		 		sand Firm	and gravel to soft, Moist		
					End	of Boring @ 24 feet E	SG	
Completion	Notes:	1	<u> </u>	 		Drill Rig:	SIMCO	Earthprobe 200
Hatched Samplin	interval der g method: (notes sample Geoprobe M	submitted for acroCore	laboratory analy	rsis	Driller:	Predrag	Vrhovac
						Geologist:	Tom Bre	cheisen
						LUST Incident No:	NA	
Water Depth	While Dri	lling: NA	Water Depth	After Drilling: N	A	Project Number: 006	518B	Page 1

ATTACHMENT 2 Laboratory Analytical Results

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project # Project Name 00618B

MOREY CORPORATION

Invoice # E31855

Report Date 09-Jan-01

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5031855A B-16 (6-9)						Sample Type Sample Date			
Inorganic							···			
General										
Solids I	Percent	83.9	%			I	1/4/01	5021	JDB	i
Organic										
VOC's										
VOC S	nol	< 980	ug/kg	980	3300	1	1/4/01	8260B	CJR	1
Aceton		< 10	ug/kg	10	34	1	1/4/01	8260B	CJR	24
Benzen		< 10	ug/kg	6.8	23	i	1/4/01	8260B	CJR	1
	dichloromethane	< 10	ug/kg	5.8	19	1	1/4/01	8260B	CJR	1
Bromoi		< 10	ug/kg ug/kg	10	34	i	1/4/01	8260B	CJR	1
	methane	< 10	ug/kg	10	35	i	1/4/01	8260B	CJR	4
	Disulfide	< 10	ug/kg	5.7	19	1	1/4/01	8260B	CJR	1
	Tetrachloride	< 10	ug/kg ug/kg	10	33	i	1/4/01	8260B	CJR	1
	benzene	< 10	ug/kg	5.6	19	1	1/4/01	8260B	CJR	1
Chloroe		< 10	ug/kg	10	34	1	1/4/01	8260B	CJR	4
Chloroi		< 10	ug/kg	4.1	14	1	1/4/01	8260B	CJR	1
• • • • • • • • • • • • • • • • • • • •	methane	< 10	ug/kg	10	35	i	1/4/01	8260B	CJR	1
	oromo-3-chloropropane	< 18	ug/kg ug/kg	18	61	1	1/4/01	8260B	CJR	1
	ochloromethane	< 10	ug/kg	9.1	30	i	1/4/01	8260B	CJR	1
	chloroethane	< 10	ug/kg	3.8	13	1	1/4/01	8260B	CJR	1 .
	chloroethane	< 10	ug/kg	8.3	28	i	1/4/01	8260B	CJR	1
•	thloroethene	< 10	ug/kg	8.7	29	1	1/4/01	8260B	CJR	
-,	-Dichloroethene	< 10	ug/kg	9.3	31	i	1/4/01	8260B	CJR	1
• - •-	,2-Dichloroethene	< 10	ug/kg ug/kg	8.8	29	1	1/4/01	8260B	CJR	1
	chloropropane	< 10	ug/kg	8.8	29	1	1/4/01	8260B	CJR	1
	,3-Dichloropropene	< 10	ug/kg	8.7	29	ì	1/4/01	8260B	CJR	1
	-Dichloropropene	< 10	ug/kg ug/kg	7.6	25	1	1/4/01	8260B	CJR	1
•	,2-Dibromoethane)	< 10	ug/kg	6	20		1/4/01	8260B	CJR	1
Ethylbe	•	14 "J"	ug/kg ug/kg	4.4	15	1	1/4/01	8260B	CJR	
2-Hexa	· · ·	< 10	ug/kg ug/kg	8.2	27	1	1/4/01	8260B	CJR	1
	ethyl ketone	< 250	ug/kg	10	35	1	1/4/01	8260B	CJR	24
-	isobutyl ketone	· < 10		8.6	29	1	1/4/01	8260B	CJR	1
	ene chloride	< 10	ug∕kg ug/kg	a.o 9	30	1	1/4/01	8260B	CJR	2
Styrene		< 10	ug/kg ug/kg	3.8	13	1	1/4/01	8260B	CJR	1
•	- -Tetrachloroethane	< 10	ug/kg ug/kg	5.2	17	1	1/4/01	8260B	CJR	1
	loroethene	< 10		5.2 6.6	22	1	1/4/01	8260B	CJR	1
ren acu	HOLOCUICIE	< 10	ug/kg	0.6	22	ı	1/4/01	9700D	∪r.	

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

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TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #

00618B

Project Name MOREY CORPORATION

Invoice # E31855

Report Date 09-Jan-01

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5031855A						Sample Type	Soil		
Sample ID	B-16 (6-9)						Sample Date			
Toluene	:====================================	58	ug/kg	7	23	==== 1	1/4/01	8260B	CJR	1
1,1,1-T	richloroethane	< 10	ug/kg	10	33	1	1/4/01	8260B	CJR	i
1,1,2-T	richloroethane	< 10	ug/kg	9.3	31	1	1/4/01	8260B	CJR	t
Trichlo	roethene	< 10	ug/kg	7.7	26	1	1/4/01	8260B	CJR	1
Vinyl a	cetate	< 53	ug/kg	53	180	1	1/4/01	8260B	CJR	1
Vinyl C	Chloride	< 10	ug/kg	10	34	1	1/4/01	8260B	CJR	1
Xylene'	's	< 30	ug/kg	16	54	1	1/4/01	8260B	CJR	1
Lab Code	5031855B						Sample Type	Soil		
Sample ID	B-17 (6-9)						Sample Date	1/2/01		
Inorganic										
General										
Solids F	Percent	84.0	%			1	1/4/01	5021	JDB	1
Organic										
VOC's										
1-Butan	nal	< 980	ug/kg	980	3300	1	1/4/01	8260B	CJR	1
Acetone		< 10	ug/kg	10	34	1	1/4/01	8260B	CJR	2 4
Benzen		< 10	ug/kg	6.8	23	ì	1/4/01	8260B	CJR	1
	lichloromethane	< 10	ug/kg	5.8	19	1	1/4/01	8260B	CJR	i
Bromof		< 10	ug/kg	10	34	1	1/4/01	8260B	CJR	1
Bromor	nethane	< 10	ug/kg	10	35	1	1/4/01	8260B	CJR	4
Carbon	Disulfide	< 10	ug/kg	5.7	19	ī	1/4/01	8260B	CJR	ı
Carbon	Tetrachloride	< 10	ug/kg	10	33	1	1/4/01	8260B	CJR	1
Chlorol	penzene	< 10	ug/kg	5.6	19	1	1/4/01	8260B	CJR	1
Chloroc	thane	< 10	ug/kg	10	34	1	1/4/01	8260B	CJR	4
Chlorof	form .	< 10	ug/kg	4.1	14	1	1/4/01	8260B	CJR	i
Chloror	methane	< 10	ug/kg	10	35	ı	1/4/01	8260B	CJR	ı
1,2-Dib	romo-3-chloropropane	< 18	ug/kg	18	61	1	1/4/01	8260B	CJR	1
Dibrom	ochloromethane	< 10	ug/kg	9.1	30	1	1/4/01	8260B	CJR	1
1,2-Dic	hloroethane	< 10	ug/kg	3.8	13	1	1/4/01	8260B	CJR	ŧ
1,1-Dic	hloroethane	< 10	ug/kg	8.3	28	1	1/4/01	8260B	CJR	i
1,1-Dic	hloroethene	< 10	ug/kg	8.7	29	1	1/4/01	8260B	CJR	1
cis-1,2-	Dichloroethene	1900	ug/kg	9.3	31	ı	1/4/01	8260B	CJR	ı
trans-1,	2-Dichloroethene	37	ug/kg	8.8	29	1	1/4/01	8260B	CJR	1
1,2-Dic	hloropropane	< 10	ug/kg	8.8	29	1	1/4/01	8260B	CJR	1
	3-Dichloropropene	< 10	ug/kg	8.7	29	1	1/4/01	8260B	CJR	1

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL. 60622

Project #

00618B

Project Name MOREY CORPORATION

Invoice # E31855

Report Date 09-Jan-01

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5031855B						Sample Type	Soil		
Sample ID	B-17 (6-9)						Sample Date	1/2/01		
cis-1,3-	Dichloropropene	< 10	ug/kg	7.6	25	1	1/4/01	8260B	CJR	1
EDB (1	,2-Dibromoethane)	< 10	ug/kg	6	20	1	1/4/01	8260B	CJR	1
Ethylbe	nzene	< 10	ug/kg	4.4	15	1	1/4/01	8260B	CJR	1
2-Hexa	none	< 10	ug/kg	8.2	27	1	1/4/01	8260B	CJR	1
Methyl	ethyl ketone	< 250	ug/kg	10	35	1	1/4/01	8260B	CJR	2 4
Methyl	isobutyl ketone	< 10	ug/kg	8.6	29	1	1/4/01	8260B	CJR	1
Methyle	ene chloride	< 10	ug/kg	9	30	1	1/4/01	8260B	CJR	2
Styrene		< 10	ug/kg	3.8	13	1	1/4/01	8260B	CJR	1
1,1,2,2-	Tetrachloroethane	< 10	ug/kg	5.2	17	1	1/4/01	8260B	CJR	1
Tetrach	loroethene	58000	ug/kg	130	440	20	1/5/01	8260B	CJR	1
Toluene	:	19 " J"	ug/kg	7	23	1	1/4/01	8260B	CJR	1
1,1,1-T	richloroethane	< 10	ug/kg	10	33	1	1/4/01	8260B	CJR	1
1,1,2-T	richloroethane	< 10	ug/kg	9.3	31	1	1/4/01	8260B	CJR	1
Trichlo	roethene	1600	ug/kg	7.7	26	Į	1/4/01	8260B	CJR	1
Vinyl a	cetate	< 53	ug/kg	53	180	1	1/4/01	8260B	CJR	1
Vinyl C	hloride	< 10	ug/kg	10	34	1	1/4/01	8260B	CJR	1
m&p-X	ylene	< 20	ug/kg	9.3	31	t	1/4/01	8260B	CJR	1
o-Xyler	ie	< 10	ug/kg	7	23	1	1/4/01	8260B	CJR	1
Xylene'	<u>'s</u>	< 30	ug/kg	16	54	1	1/4/01	8260B	CJR	1
Lab Code	5031855C						Sample Type	Soil		
Sample ID	B-17 (15-18)						Sample Date			
Inorganic										
General										
Solids I	Percent	86.0	%			ı	1/4/01	5021	JDB	1
Organic										
VOC's										
I-Butar	nol	< 980	ug/kg	980	3300	ı	1/5/01	8260B	CJR	1
Aceton		< 10	ug/kg ug/kg	10	3300	1	1/5/01	8260B	CJR	347
Benzen		< 10	ug/kg ug/kg	6.8	23	1	1/5/01	8260B	CJR	1
	dichloromethane	< 10	ug/kg ug/kg	5.8	19	ì	1/5/01	8260B	CJR	1
Bromo		< 10		3.8 10	34	ì	1/5/01	8260B	CJR	i
	methane		ug/kg	10	35	1	1/5/01	8260B	CJR	4
	Disulfide	< 10	ug/kg	• • •	33 19	1	1/5/01	8260B	CJR	1
=	Tetrachloride	< 10	ug/kg	5.7		-	1/5/01	8260B	CJR	1
		< 10	ug/kg	10	33	1		8260B	CJR CJR	1
Chiorol	benzene	< 10	ug/kg	5.6	19	1	1/5/01	9700B	CJK	i

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

Page 3 of 5

TOM BRECHEISEN
PIONEER ENVIRONMENTAL
1000 NORTH HALSTED
CHICAGO IL 60622

Project #
Project Name

00618B

Project Name MOREY CORPORATION

Invoice # E31855

Report Date 09-Jan-01

	Analyte	Result	Units	LOD	rod	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5031855C B-17 (15-18)						Sample Type Sample Date	Soil 1/2/01		
Chloroe	thane	< 10	ug/kg	10	34	ı	1/5/01	8260B	CJR	4
Chlorofe	orm	< 10	ug/kg	4.1	14	1	1/5/01	8260B	CJR	1
Chloron	nethane	< 10	ug/kg	10	35	1	1/5/01	8260B	CJR	1
1,2-Dibi	romo-3-chloropropane	< 18	ug/kg	18	61	ı	1/5/01	8260B	CJR	1
Dibromo	ochloromethane	< 10	ug/kg	9.1	30	1	1/5/01	8260B	CJR	ı
1,2-Dich	nloroethane	< 10	ug/kg	3.8	13	1	1/5/01	8260B	CJR	1
1,1-Dich	nloroethane	< 10	ug/kg	8.3	28	1	1/5/01	8260B	CJR	1
1,1-Dich	nloroethene	< 10	ug/kg	8.7	29	1	1/5/01	8260B	CJR	1
cis-1,2-I	Dichloroethene	< 10	ug/kg	9.3	31	1	1/5/01	8260B	CJR	1
trans-1,2	2-Dichloroethene	< 10	⊔g/kg	8.8	29	1	1/5/01	8260B	CJR	1
1,2-Dich	nloropropane	< 10	ug/kg	8.8	29	1	1/5/01	8260B	CJR	1
trans-1,3	3-Dichloropropene	< 10	ug/kg	8.7	29	1	1/5/01	8260B	СJR	1
cis-1,3-I	Dichloropropene	< 10	ug/kg	7.6	25	1	1/5/01	8260B	СJR	1
EDB (1,	2-Dibromoethane)	< 10	ug/kg	6	20	1	1/5/01	8260B	CJR	1
Ethylber	nzene	< 10	ug/kg	4.4	15	1	1/5/01	8260B	CJR	1
2-Hexan	ione	< 10	ug/kg	8.2	27	1	1/5/01	8260B	CJR	1
Methyl (ethyl ketone	< 250	ug/kg	10	35	ì	1/5/01	8260B	CJR	3457
Methyl i	isobutyl ketone	< 10	ug/kg	8.6	29	1	1/5/01	8260B	CJR	1
Methyle	ne chloride	< 10	ug/kg	9	30	1	1/5/01	8260B	CJR	1
Styrene		< 10	ug/kg	3.8	13	1	1/5/01	8260B	CJR	1
1,1,2,2-	Tetrachloroethane	< 10	ug/kg	5.2	17	i	1/5/01	8260B	CJR	37 -
Tetrachi	oroethene	< 10	ug/kg	6.6	22	1	1/5/01	8260B	CJR	1
Toluene		< 10	ug/kg	7	23	1	1/5/01	8260B	CJR	1
1,1,1-Tr	ichloroethane	< 10	ug/kg	10	33	1	1/5/01	8260B	CJR	1
	ichloroethane	< 10	ug/kg	9.3	31	1	1/5/01	8260B	CJR	1
Trichlor	oethene	< 10	ug/kg	7.7	26	1	1/5/01	8260B	CJR	1
Vinyl ac	etate	< 53	ug/kg	53	180	1	1/5/01	8260B	CJR	1
Vinyl C		< 10	ug/kg	10	34	1	1/5/01	8260B	CJR	1
Xylene's		< 30	ug/kg	16	54	1	1/5/01	8260B	CJR	ī

CONTROL OF THE ART OF

TOM BRECHEISEN
PIONEER ENVIRONMENTAL
1000 NORTH HALSTED
CHICAGO IL 60622

Project #

00618B

Project Name

MOREY CORPORATION

Invoice#

E31855

Report Date 09-Jan-01

Analyte		Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
LOD Limit of Detection		"J" F1	ag: Analyte d	etected bety	veen LOI	and L	.000		LOQ Limit o	of Quantitation
(Code	Comment								
	1	All laboratory	QC requirem	ents were	met for t	his sa	mple.			
2		The duplicate RPD failed to meet acceptable QC limits.								
	3	The spike recovery failed to meet acceptable QC limits.								
	4	The check standard failed to meet acceptable QC limits.								
	5	The blank failed to meet acceptable QC limits.								
	7	The LCS spike	e recovery fa	iled to med	et accept	able C	(C limits.			

CHAIN OF CUSTODY RECORD

Lab I.D. # 、不



A. ..lytical Lab

1090 Kennedy Ave. • Kimberly, WI 54136 (920) 735-8295 • FAX 920-739-1738 • 800-490-4902 LAB@USOIL.COM

Chain #	NO	2128	A
CHAIN #	112	2120	4

av. Date: 12-17-98

Page ____ of ___

Account No.: Quo	ote No.:	LADGUSC			_				or/_		
Project #: 00618B Sampler: (signature) 1	,	Sample integrity. To be com Method of Shipment	pleted by fecelving lab. Temp. of Tell	np Blar	ik Pu	<i>]</i> ;co	n Ice:			6	MZ
Sampler, (signature) Nowmy A	Brecheisen		or ZXYes ZZ No	Labo	oded B	y:	107.05.0	4 4 A.A.			NVI
Project (Name / Location): The		m / 2659 h	<u>Visumsin</u>	 	, 	An	alysis	Req	uested		
Reports To. Tom Brucheis.	Invoice To:		Sample Handling	1	} } }		} }		Othe	er Ana	alysi s '
Company Pienyer Environm	Company		Request				-				}
Address 100 N. Halatel, 2			Rush Analysis Date Required		ਜ਼ ਜ਼						
City State Zip (Li case, IL 6	Gity State Zip		Normal Turn Around	HE HE	8 8	226	83 55		i		
Phone 312 . 587 . 1821	Phone		Normal Turn Around	Pod Pod	EPA	PA	AA	oint			
	ate Time Size	Containers Description	n* Preservation	GRO (A	PVOC (EPA 8021) BTEX (EPA 8021)	VOC (F	O&G (E PAH (E	Pb Flash Point			PID/ FID
5031856A B-14/6-9) 1-	-2-01 1-40mL	5				7		-		11	1
B-17 (v-a') 1.		Š				1	11			11	1
C B-17 (5-17)1-		3				1	1			11	1
						++		+-		++	1
						1	_			11	1
				11		77	- -		 	++	1
				++-		77	++	-		1-1-	1
				1- -	 	- -		+-		+	1
				+		11		-		 - -	
Department Use Onl Split Samples: Offered? Yes Accepted? Yes Accepted By:	No Specify	nts/ Special Instructions groundwater "GW", Drinkir	ng Water "DW", Waste Wate	r "WW"	', Soil '		ir "A",	e F	36	IS	SH
Department Use Optional for S Disposition of unused portion of sam Lab Should:	oll Samples Pelinquis	$\Lambda \sim V$	Time Date Prece	ived By)			Time	e	Date
Lab Should:		T V									
Dispose Retain	or it days					1				— _/	/
Return Other	Receive	d in Laboratory By:	Don	Tir	ne:	1.7)U		Date:	$I/\bar{3}$	3/01

ATTACHMENT 3

Tier 2 GRO Calculations

Weighted Average Calculation

Equation R-26 Solved for C(Source)

	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5
Contaminant of Concern	PCE	TCE	DCE	VC	мс
Regd. concn. at the prop line (GRO) C ₁₃₁ - µg/L:	5	5	70	2	5
	1				
Dist. along centerline of gw plume	610	610	610	(10	4:0
in direction of gw flow (X) - cm:	610	610	610	610	610
Source width perpendicular to gw flow		ĺ		1	ł
direction in horiz. plane (S_) - cm:	2,438	2,438	2,438	2,438	2,438
Source width perpendicular to gw flow					ĺ
direction in vert. plane (S ₄) - cm:	30.48	30.48	30.48	30.48	30.48
First Order Degradation Constant	1				
App. C, Table E (λ) - day ⁻¹ :	0.00096	0.00042	0.00024	0.00024	0.012
					200
Hydraulic Conductivity (K) - cm/day:	0.86	0.86	0.86	0.86	0.86
Hydraulic gradient (i) - cm/cm:	0.01	0.01	0.01	0.01	0.01
mont out pour te		1			}
Total Soil Porosity App. C, Table C (Θ_7) - cm ³ /cm ³ ma:	0.43	0.43	0.43	0.43	0.43
App. c, Table c (c)					
Longitudinal Dispersivity (α _n) - cm	ļ	}	}		1
R-16 α _s =0.10°X:	61.00	61.00	61.00	61.00	61.00
Transverse Dispersivity (α,) - cm				ĺ	
R-17 a,=a,√3:	20.33	20.33	20.33	20.33	20.33
Vertical Dispersivity (α _n) - cm		}			
R-18 a,=a,/20:	3.05	3.05	3.05	3.05	3.05
Error Functions: $B_1 = S_*/(4^*SQRT(\alpha_*^*X))$	5.47	5.47	5.47	5.47	5.47
From App. C, Table G enter corresp.	_]	_		
error function value erf(B ₁):		11			
$B_2 = S_2/(2^{\bullet}SQRT(\alpha_2^{\bullet}X))$	0.35	0.35	0.35	0.35	0.35
From App. C, Table G enter corresp.					
error function value erf(B ₂):	0.38269404	0.38269404	0.38269404	0.38269404	0.38269404
Specific Discharge (U) - cm/day		1			,
R-19 U=K*VO ₇ :	0.020	0.020	0.020	0.020	0.020
R-26 Concentration at Source					
C _{1,1} - μg/L:	4.86E+06	2.08E+04	2.48E+04	7.09E+02	2.03E+25

Intermediate Solutions:

	Trial I	Trial 2	Trial 3	Trial 4	Trial 5
Contaminant of Concern	PCE	TCE	DCE	VC	МС
a = X/2°α,	5	5	5	5	5
b = SQRT (1+(4°λ°α _π /U) =	3.565	2.475	1.982	1.982	12,141
c = (1-b)*a =	-12.827	-7.373	-4.910	-4.910	-55.704
d = EXP(c) =	0.000	0.001	0.007	0.007	0.000
$C_{(source)} = C(x)/(d^ed(B2)^ed(B1)) =$	4861722.07	20812.64	24800.18	708.58	2.03E+25

Equation R-26 Solved for C(x)

	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5
Contaminant of Concern	PCE	TCE	DCE	VC	МС
Conc. at the Source C _{toorce} - µg/L:	4,860,000	20,800	24,800	709	2.03E+25
Dist. along centerline of gw plume					
in direction of gw flow (X) - cm:	610	610	610	610	610
Source width perpendicular to gw flow	1		}	1	
direction in horiz. plane (S _w) - cm:	2,438	2,438	2,438	2,438	2,438
Source width perpendicular to gw flow	20.48	20.40	30.49	20.40	70.40
direction in vert. plane (S _d) - cm:	30.48	30.48	30.48	30.48	30.48
First Order Degradation Constant	1		İ	(
App. C, Table E (λ) - day-1:	0.00096	0.00042	0.00024	0.00024	0.012
Hydraulic Conductivity (K) - cm/day:	0.86	0.86	0.86	0.86	0.86
Hydraulic gradient (i) - cm/cm:	0.01	0.01	0.01	0.01	0.01
Total Soil Porosity					
App. C. Table D (Θ_T) - cm ³ /cm ³ seit:	0.43	0.43	0.43	0.43	0.43
Longitudinal Dispersivity (04) - cm					
R-16 a _s =0.10°X:	61.00	61.00	61.00	61.00	61.00
		j		!	
Transverse Dispersivity (α,) - cm R-17 α,≈α,/3:	20.33	20.33	20.33	20.33	20.33
icar acaps.	20.33	20.55	20.55	20.33	20.55
Vertical Dispersivity (02) - cm	-	}			
R-18 α,=α,/20 :	3.05	3.05	3.05	3.05	3.05
Error Functions:	}	J	!		
$B_1 = S_{\omega}(4*SQRT(\alpha_1*X))$	5.47	5.47	5.47	5.47	5.47
From App. C, Table G enter corresp.		<u>.</u>			
error function value erf(B ₁):		1	1	11	!
$B_1 = S_a/(2^*SQRT(\alpha_a^*X))$	0.35	0.35	0.35_	0.35	0.35
From App. C, Table G enter corresp.		1	,		
error function value erf(B ₂):	0.38269404	0.38269404	0.38269404	0.38269404	0.38269404
Specific Discharge (U) - cm/day		0000	0.020	0.020	0.020
R-19 U=K*i/O ₇ :	0.020	0.020	0.020	0.020	0.020
R-26 Concentration at distance(X) from					
the source C(x) - µg/L:	4.998	4.997	70.000	2,001	4.993

2.001 4.993 NROS

Intermediate Solutions:

intermediate Solutions,	Chul	V			
	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5
Contaminant of Concern	PCE	TCE	DCE	vc	мс
a = X/2°c _n .	5	5	5	5	5
b = SORT (1+(4°λ°α ₂ /U) =	3.565	2.475	1.982	1.982	12.141
c = (1-b)*a =	-12.827	<i>-</i> 7.373	-4.910	-4.910	-55.704
d = EXP(c) =	0.000	0.001	0.007	0.007	0.000
$C_{(x)} = d^*erf(B2)^*erf(B1)^*C_{(equive)} =$	5.00	5.00	70.00	2.00	4.99

§ 742,805(·)=

$$W_{AVE} = \frac{v_1}{CUO_{x_1}} + \frac{v_2}{CUO_{x_2}} + \dots + \frac{v_a}{CUO_{x_a}}$$

FROM APPENDIX A, TABLE F, Similar-Acting Carcinogens for Liver

Trichloriethylene (TCE) Tetrachloriethylene (PCE) Vingl charide (VC)

From R-14 (Appendix H, 11-8-00 FSI/RACR),

X 11 = 3,897 M3/L

X PLE : 56,075 Mg/L

X x = 91 19/L

From R-26 Solved for Csource (i.e. Tim 2 GRDs)

CUOTLE = 2.08 (104) Mg/L

CUDPLE: 4.86 (106) M3/L

CUOyc = 7.09 (103) My/L

ATTACHMENT 4

Hazardous Waste Manifest

F.O BOX 19276

SPRINGFIELD ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

	ASE TYPE (Form, designed for use on plus (12	- Later (tales and in a.)		D-22 (Rev. 6-89)				
	UNIFORM HAZARDOUS	1. Generator's US		Menitoxi Document No.	7 Pa	required to	ov Fectori v.	n phaded rimes in sus or tell, but its required by
	3. Generator's Name and Mailing Address に対象 Suriding に対象 We correct		n II Different		8. Go	ols Manitest Doc 92372 nerator's IL	247	IF APPLICABLE
	EXTENSES (MENCE (BITTERS) 4. '24 HOUR EMERGENCY AND SPILL ASSIST	ANCE NUMBERS	Ce Att. 1916			nsporter's	لسلسا	المنافعة المنافعة
-	5 Transporter 1 Company Name 5. US EPA ID Number 10 Num							हुत्। १२५८)
	7 Transporter 2 Company Name		US FPA ID N	lumber	E. Tra	nsporter's Number		
-	9. Designated Facility Name and Site Address	10.	US EPA IO N	lumber		naporter's Phone	()
	rishama Contrat habitation of Ind 2303 Kemalah Avenue	1.451.5			ID_	Ality's IL Number (NA I
1	First Christin butters 4611	i	1641 4/2/2	ક્ષેત્રાં કહે.ડો 	H. Fed	Hity's Phone (***	9 33	7-32/11
1	14. US DOT Description (Including Proper Shipp	ing Name, Hezard C	less, and ID Number)	12. Conte	Type	13, Total Quantity	14. Unit W/Vol	i. Wasio No.
	g recurrences significations The Harmshott By D (1) (Their	,						PJT - HW Number
1				0. 9.4	··M	مان اصرات		PA HW Number
1	b					!		
	с.			 		-4-4-4-		EPA HW Number
:						1111		
	a.							EPA HW Number
1	1. Additional Description io Maladate Listed Abo				l w	tem ≱14		
					h	tem #14		,
	15 Special Handling Instructions and Additional				l m l	tem #14		
		Information			, kn l	ngm #14		· · · · · · · · · · · · · · · · · · ·
	15. Special Handling Instructions and Additional TOTALS (1807) Connection of Designation Requirements of Designation Requirements of Central Control of Designation of Desi	Information iters that the continue d, marked, and labele it government regulati have a senoram in c	d, and are in all respections. Jaco in reduce the volu-	is its proper condition ime and toxicity of a	y describ n for Iron	od above by sport by highway	grae 1 hi	eve determined to
	15. Special Handling Instructions and Additional Telegraphy (CC) Special Handling Instructions and Additional Telegraphy (CC) In GENERATOR'S CERTIFICATION: I hereby decrease shipping name and are classifled, packed exceeding to applicable intermediated and fast have shipping practicable and fast in have shipping practicable and fast in have shipping and fasture throat to human hoath and the environment of the bost waste management method that	Information Information Iters that the continues of marked, and labeled in government regulation in patent for the processible on more OR III is an a	d, and are in all maped ions. place to reduce the volu method of keatment, sto sensi quantity generate	is its proper condition ime and toxicity of a	y describ n for Iron	od above by sport by highway	gree 1 hi lich min my Wal	seve determined to insices the prefuse size generation and Date
	15. Special Handling Instructions and Additional TOTAL SECT SECT CONTROL TOTAL SECTION OF THE SE	Information Information Iters that the continues of marked, and labeled in government regulation in patent for the processible on more OR III is an a	d, and are in all maped ions. place to reduce the volu method of keatment, sto sensi quantity generate	is its proper condition ime and toxicity of a	y describ n for Iron	od above by sport by highway	gree 1 histor min my Wal	Inices the prenish ste generation and
	15. Special Hendling Instructions and Additional TOTAL STATES AND	Information Information Iters that the continues of marked, and labeled government regulate patentials of the practicable formon; OR, if I am a lis evaluable to me an	of, and are in all mapped ions. blace to reduce the volumethod of freetment, sic a small quantity generated that I can efford. Signature	is its proper condition ime and toxicity of a	y describ n for Iron	od above by sport by highway	gree 1 hidd min	Inices the premint ste generation and Dato Dato Month Ony Year 2 2) 3
	15. Special Hendling Instructions and Additional TOTAL STATES AND	Information Information Iters that the continues of marked, and labeled government regulate patentials of the practicable formon; OR, if I am a lis evaluable to me an	nd, and any in all mapset ions. June 10 reduce the volu- minor of leastmost, sto is small quantity generally of tho! I can ufford.	is its proper condition ime and toxicity of a	y describ n for Iron	od above by sport by highway	gree 1 hick men	Dato Month Day Year
	15. Special Handling Instructions and Additional TOTAL TRUTTS TOTAL TOTA	information iters that the continues of marked, and lebels of government regulate. I have a program protection or committee or committ	of, and are in all mapped ions. place to reduce the volumethod of leastment, six small quantity generated that I can before. Signature Signature	is its proper condition ime and toxicity of a	y describ n for Iron	od above by sport by highway	gree i likili min my wa	Inizee Buy prehind ste generation and Dato Dato Month Osy Year Date Month Day Year Liole
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ASSESSMENT • ENGINEERING • REMEDIATION

FOCUSED SITE INVESTIGATION & REMEDIAL ACTION COMPLETION REPORT

The Morey Corporation 2659 Wisconsin Street Downers Grove, Illinois

Prepared For:

MC Holdings, Inc. 100 Morey Drive Woodridge, Illinois 60517 Attn: Mr. Dana Morey

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Date Submitted:

November 8, 2000

Pioneer Project # 00618

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Pioneer Project Number: 99755
November 8, 2000
Date

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1.0 INTRODUCTION

1.1 Site Investigation Objectives

Pioneer Environmental, Inc. (Pioneer) was contracted by MC Holdings, Inc. (Remediation Applicant / client) to conduct a "focused" site investigation and provide environmental consulting services for the subject site located at 2659 Wisconsin Avenue in Downers Grove, Illinois (Figure 1). The purpose of the focused site investigation was to determine the nature and extent of contamination related to accidental releases of waste cleaning solvent that was previously identified during an initial assessment, and then use the regulatory options provided in 35 IAC Part 740-Site Remediation Program (SRP), and Part 742-Tiered Approach to Corrective Action Objectives (TACO), to obtain a focused "No Further Remediation" Letter (NFR Letter) for the subject site.

The following report is strictly related to the subsurface investigation activities conducted by Pioneer and is intended to serve as a *Focused Site Investigation & Remedial Action Completion Report* pursuant to Sections 740.435, 740.445 and 740.455. The contents of this report include a detailed discussion of the site characterization work and the TACO procedures utilized to establish site-specific remediation objectives and determine the degree of remedial action necessary to obtain a NFR Letter in accordance with Part 740, Subpart F and Section 58.10 of the Illinois Environmental Protection Act.

1.2 Background Information

The subject property, encompassing approximately 3.9 acres of land, consists of two parcels of land owned by MC Holdings, Inc. The Remediation Site consists of an approximate 1,200 square foot area located near the east-central portion of the subject property (Figure 2). A tall, one-story structure and an adjacent asphalt parking lot comprise the subject property which is located within the Ellsworth Industrial Park. The subject property is currently vacant and the property owner informed Pioneer that the building was formerly used for the manufacturing of small electronic components (See Section 2.1). Legal descriptions for the subject property and the Remediation Site are included in Appendix A.

The client is hereby submitting the required paperwork (Appendix A) to notify the Illinois Environmental Protection Agency (IEPA) of their election to proceed under the Site Remediation Program (SRP). This is being done for the express purpose of securing a NFR Letter from the State.

1.3 Recognized Environmental Conditions

As previously discussed, the subject property was used for manufacturing small electronic components. According to the property owner, historical site operations involved the storage of miscellaneous liquid wastes in a small, dedicated room along the subject building's eastern wall. This waste primarily included cleaning solvent and soldering by-products (i.e. flux). A floor drain from the waste storage room discharged to the ground surface immediately outside the building's eastern wall. Pioneer was informed that an initial assessment was previously performed at the site and identified certain volatile organic compounds (VOCs) in soil samples collected from the area around this drain pipe. Therefore, the presence of VOC-impacted soils was identified as a recognized environmental condition (REC) and provided the focus for the site investigation activities conducted at the subject site by Pioneer.

1.4 Contaminants of Concern

Based on the REC, the information from the previous assessment, and the nature of the suspected source at the subject site, Pioneer established volatile organic compounds (VOCs) as the appropriate contaminants of concern (COCs) at the subject site. The VOC analysis includes the full-scan of organic compounds typically found in waste cleaning solvents, including tetrachloroethylene (PCE), trichloroethylene (TCE) and the various degradation compounds of PCE and TCE.

2.0 SITE CHARACTERIZATION

2.1 Site Description

The subject site consists of two parcels of land owned by MC Holdings, Inc. The subject site is rectangular in shape and encompasses approximately 3.9 acres of land located near the southwest corner of the intersection of Wisconsin Street and Katrine Avenue in the Village of Downers Grove, Illinois. The subject site is occupied by an approximate 43,200 square foot one-story building located within the Ellsworth Industrial Park. The site is bordered to the north and east by Wisconsin Street and Katrine Avenue, respectively, beyond which are industrial/commercial buildings. An asphalt parking lot lies to the west of the subject building, beyond which is industrial/commercial development. South of the subject building is an asphalt parking lot beyond which is densely vegetated vacant land.

The subject building consists primarily of an open warehouse area, where former soldering workstations were utilized to manufacture small electrical and mechanical assemblies (i.e. circuit boards). As assemblies were completed, they were cleaned with solvent and the solvent was then stored in a 55-gallon drum in the aforementioned waste storage room located along the eastern side of the subject building. A floor drain routed any small spills of the wastes to a discharge point immediately outside the subject building and directly east of the waste storage room (Figure 3). Evidence of past spills (i.e. staining) was noted on the floor in the waste storage room.

The subject site is located in a manufacturing district (M1) within the Village of Downers Grove. The following list summarizes the adjacent properties noted during the recent investigation.

North: The site is bordered to the north by Wisconsin Street beyond which is

Novartis Seeds, Inc. and Amkus Rescue Systems.

<u>East:</u> The site is bordered to the east by Katrine Avenue, beyond which is

Lovejoy.

West:

The site is bordered to the west by a public storage facility.

South:

The subject property is bordered to the south by vacant land that is known as Elmore Avenue (dedicated right-of-way), beyond which is densely vegetated vacant land, reportedly located in an unincorporated portion of Downers Grove.

2.2 Sampling Plan

Based on the reported presence of solvent contamination beneath the discharge pipe outside the eastern edge of the building, Pioneer developed a sampling plan to adequately characterize the site conditions associated with the REC. The objectives of the assessment activities were to confirm and supplement previous assessment activities which indicated the site's soils had been impacted by VOCs and then to delineate the horizontal and vertical extent of the potential VOC contamination based on Pioneer's assessment results.

As mentioned, Pioneer was informed by the owner that VOC-impacted soils were identified by a previous assessment conducted in the area outside the east wall of the subject building from a floor drain discharge related to spills from former waste transfer operations previously conducted on-site. Pioneer noted evidence of past spills on the floor of the former waste storage room (i.e. staining). The owner stated that an excavation (3' x 3' x 4' deep) was dug manually beneath the discharge pipe. Soils from the excavation were stockpiled inside 55-gallon drums outside the subject building (Figure 3) and are intended for proper disposal according to the applicable regulations. Therefore, based on the information provided, Pioneer's assessment targeted the area beneath the waste storage room and beneath the discharge pipe outside the eastern portion of the subject building as the potential source area.

As a result, Pioneer advanced 15 soil borings throughout the site. Soil samples were collected and analyzed for VOCs according to USEPA Method 5035/8260B. For purposes of a TACO evaluation, one soil sample was also analyzed for pH and fraction of organic carbon (f_{∞}), according to respective USEPA Methods 9045 and 9060.

2.3 Soil Boring Advancement/Sampling

On August 28 and 29, 2000, Pioneer mobilized subsurface drilling equipment and OSHA-certified personnel to the subject site. A total of 15 soil borings were advanced at strategic locations inside the subject building and throughout the eastern portion of the subject property (Figure 3). Soil borings outside the subject building were advanced through a surface finish of either concrete or vegetated topsoil while soil borings advanced inside the subject building were advanced through concrete and an approximate 6-12 inch layer of associated gravel base materials. Internal soil borings were advanced using a manually-operated jackhammer-driven sinker drill. Exterior soil borings were advanced using a truck-mounted hydraulically-driven sinker drill. Soil samples were collected using a stainless steel barrel sampler with dedicated PVC liner sleeves. A photographic log of these activities is included in Appendix B.

The soil samples obtained from each interval were logged according to their predominant geological characteristics and then divided into two representative portions by a Pioneer Project Engineer. A measured portion of each sample (13 grams) was transferred from the sampling device(s) into pre-labeled laboratory provided glass containers with appropriate preservative (in accordance with SW-846 Method 5035 for VOCs), designated for possible analysis, and stored in a cooler on ice to preserve the integrity of the sample. The remaining portion of each sample was sealed in a pre-labeled plastic bag and set aside to be field screened.

After a sufficient amount of time had elapsed to allow the soil vapors to equilibrate with the air in the sample bags, the sealed soil vapors were field screened using either a MicroFIDTM IS-3000 hand-held flame ionization detector (FID). This device is sensitive to a variety of VOCs, including those commonly associated with waste solvents and their degradation compounds. The instrument provides a quantitative indication of the relative concentrations of these compounds in the soil sample by measuring the amount of VOCs trapped in the headspace of the bags.

Pioneer selected soil samples from various boring locations for analytical testing. The samples were selected based on the scope of work, FID readings, and judgment of the

Project Engineer. The selected samples were then shipped overnight to an independent laboratory under standard chain-of-custody procedures, and submitted for analysis of the appropriate targeted compounds (VOCs). Pioneer's complete protocol for subsurface soil sampling and soil boring logs are provided in Appendix C.

2.4 Field Observations

No visual/olfactory indications of potential contamination were noted in any of the soil borings advanced on-site; however, elevated FID readings were noted in three of the 15 soil borings advanced at the subject site. This field evidence of contamination was primarily observed in samples collected beneath the former waste storage room and near the floor drain discharge pipe outside the eastern portion of the subject building (i.e. source area) and was observed from near surface grade to depths up to 12 feet BSG.

2.5 Site Geology

Soils beneath asphalt and concrete surface materials consisted primarily of brown silty clay and clayey silt from near surface grade to depths ranging from approximately 6 to 9 feet below surface grade (BSG). In general, the upper silty clay unit contained varying percentages of gravel, sand and silt, retained a loose, firm to stiff consistency, and exhibited brown to dark brown color variations.

Beneath this brown upper silty clay unit, a gray silty clay unit was encountered in all borings at depths ranging from 6 to 12 feet BSG with the exception of B-9, which was terminated at 9 feet BSG. The gray silty clay unit contained trace percentages of fine sand and its consistency ranged from soft to stiff. Based on observations from B-6, which began approximately 4 feet below natural surface grade due to the recessed loading dock, the gray silty clay persisted to at least 16 feet BSG. There was no obvious evidence of groundwater detected during any of the subsurface investigation activities performed by Pioneer.

According to the Illinois State Geological Survey (ISGS) map dated 1984 and titled Stack-Unit Mapping of Geological Materials in Illinois to a Depth of 15 Meters, by Kempton, John P. et al., and the ISGS map dated 1970 and titled Surficial Geology of the Chicago Region, by Willman and Lineback, the subject site is situated on the Wadsworth Member of the Wedron Formation, which is described as mostly gray clayey and silty clayey till, with low pebble, cobble and boulder content and local silt lenses present from approximately six to 15 feet BSG. The Wedron Formation is described as silty and clayey tills with interspersed beds of alluvial sand and gravel deposits.

Pioneer also reviewed Plate 1 of the ISGS Circular dated 1984 and titled *Potential for Contamination of Shallow Aquifers in Illinois*, by Berg, Richard C. et al. Plate 1 indicates the subject site is located on the border of areas designated as "C2" and "E". A "C2" classification is described as sand and gravel within 20-50 feet of surface underlain by impermeable till. An "E" classification is described as uniform, relatively impermeable silty or clayey till at least 50 feet thick. Based on the actual subsurface sediments encountered at the subject site, the site geology appears more consistent with an "E" classification.

Based on the Berg Circular and the predominant soil types encountered at the subject site, hydraulic conductivities were estimated to range from 10⁻⁹ to 10⁻⁷ cm/s, which indicate the site's soils have a low permeability. A complete listing of the geological conditions encountered during drilling are provided on the soil boring logs in Appendix C. Copies of the ISGS maps are included in Appendix D.

3.0 TIER 1 EVALUATION

3.1 Introduction

Based on the nature of the REC, each of the soil samples analyzed during the site investigation was tested for VOCs. In order to further characterize the site and for purposes of a potential Tier 2 evaluation, one soil sample was analyzed for pH and one soil sample was also analyzed for its fraction of organic carbon (f_{∞}) . All analytical tests were performed by an independent laboratory in accordance with accepted State and Federal test methods.

Based on the site's historical and intended future industrial use, soil sample analytical results contained herein are compared to the most stringent soil remediation objectives (SROs) for industrial/commercial property, also referred to as Tier 1 SROs, found in 35 IAC 742, Tiered Approach to Corrective Action Objectives (TACO). The industrial/commercial Tier 1 SROs represent baseline contaminant concentrations that are acceptable to the IEPA. These Tier 1 SROs are based on a risk assessment that incorporates a conservative exposure scenario and yields values relative to three primary exposure pathways; namely, ingestion, inhalation, and the groundwater ingestion exposure routes (migration to groundwater), and for two target populations, industrial/commercial workers and construction workers.

Although these Tier 1 SROs may not represent final remediation objectives for the site, the analytical results of the soil and groundwater samples are herein compared to the most stringent Tier 1 SROs for industrial/commercial property use for initial screening purposes. Pursuant to the Part 742 regulations, the values for each of the three exposure pathways must be presented for matters of comparison and the most stringent becomes the remediation objective for a Tier 1 Evaluation.

3.2 Soil Sample Analytical Results

A total of 14 soil samples were analyzed for VOCs. The analytical results of the soil samples tested for VOCs indicated that concentrations of five of the 37 targeted compounds exceeded the most stringent Tier 1 SROs in seven of the samples analyzed. Table 3.2.1 provides a detailed breakdown of the particular pathway-specific Tier 1 SROs that were exceeded.

TABLE 3.2.1

Contaminants of Concern Exceeding Tier 1 SROs
The Morey Corporation
2659 Wisconsin Street / Downers Grove, Illinois

TACO Exposure Pathways								
	Route Specific Values				Soil Com Groundwate	Soil Saturation		
Sample ID	Industrial - Commercial		Construction Worker		Exposure Route		Limit	
	Ingestion	Inhalation	Ingestion	Inholation	Class I	Class II	C	
B-1 (3'-6')	PCE	PCE		PCE	PCE, TCE, DCE, VC	PCE, TCE, DCE		
B-1 (9'-12')					DCE	·		
B-2 (6'-9')					PCE			
B-6 (3'-6')					PCE, TCE, DCE, VC	PCE, TCE, DCE		
B-10 (4'-6')		PCE		PCE	PCE	PCE		
B-10 (10'-12')					PCE	PCE		
B-12 (4'-6')					мс			

Notes:

PCE = Tetrachloroethylene; TCE = Trichloroethylene; DCE = cis 1,2-Dichloroethylene; VC = Vinyl Chloride MC = Methylene Chloride

Analytical results show that remaining VOCs in these seven soil samples and the VOCs in all other soil samples were either not detected at the stated detection limits or were detected below the most stringent Tier 1 SROs. A complete summary of soil analytical results is provided in Table No. 1 and laboratory reports are included in Appendix E. Soil sample locations and exceedances of the Tier 1 SROs are shown on Figure 4.

Soil samples B-7 (3'-6') and B-14 (3'-6'), which were collected from non-impacted areas, were also analyzed for pH and f_{∞} respectively. Results yielded a pH of 7.20 standard units

and an organic carbon content of 1.08 % (or 0.0108 g-C / g-soil), which is approximately 5 times greater than the IEPA subsurface default value of 0.2% (0.002 g-C / g-soil).

3.3 Tier 1 Evaluation - Summary

The analytical results have demonstrated that soils beneath the eastern portion of the subject site have been impacted, to varying degrees, by: tetrachloroethylene (PCE), trichloroethylene (TCE), cis 1-2 dichloroethylene (DCE), vinyl chloride (VC) and methylene chloride (MC). The soil contamination appears to be most severe beneath the former waste storage room and the floor drain discharge pipe, which was considered the apparent source area based on the information previously provided by the owner.

4.0 ENDANGERMENT ASSESSMENT / REMEDIATION OBJECTIVES DETERMINATION

4.1 Introduction

As mentioned above, the analytical results of the soil samples indicated that the subject property has been impacted by certain VOCs at concentrations above the industrial/commercial Tier 1 SROs (Figure 4). As a result, Pioneer performed an endangerment assessment in accordance with the procedures outlined in the TACO regulations. The approach of this endangerment assessment was to eliminate the groundwater ingestion pathway and to establish site-specific Tier 2 SROs for remaining pathways for those contaminants detected above the most stringent industrial/commercial Tier 1 SROs. The five COCs at the site that were analytically confirmed to exceed the most stringent industrial/commercial Tier 1 SROs for any pathway are herein referred to as Targeted COCs and have been outlined below in Table 4.1.1.

Table 4.1.1
Targeted Contaminants of Concern

Targeted COCs	Pathway Exceeded						
	Ingestion	Inhalation	Class 1	Class II			
Tetrachloroethylene (PCE)	X	х	x	X			
Trichloroethvlene (TCE)			X	x			
Cis 1,2 Dichloroethylene (DCE)			x	Х			
Vinyl Chloride (VC)			_ X				
Methylene Chloride (MC)			X				

4.2 Exposure Route Evaluation

Each of the potential exposure routes was evaluated pursuant to Subpart C of the Part 742 regulations to determine the feasibility of excluding specific pathways (i.e. groundwater ingestion and migration to groundwater) for the targeted COCs identified at the site. As provided in Subpart C of the Part 742 regulations, exposure pathways may be excluded from consideration if it can be demonstrated that an actual or potential impact to a receptor

or potential receptor can be eliminated. If exposure pathways can be excluded, their

corresponding objectives are no longer applicable.

However, prior to conducting an exposure pathway assessment, the specific targeted COCs must be identified at the site. Based on the analytical results of the assessment work, the compounds listed in Table 4.1.1 were the only COCs identified at the site that required

investigation beyond a Tier 1 evaluation.

As outlined in Section 742.305, prior to elimination of any pathways at a site, certain minimum requirements must be evaluated and satisfied. These requirements include the

following:

• The sum of the concentrations of all organic COCs shall not exceed the attenuation

capacity of the soil as determined under Section 742.215 (Section 742.305(a));

Pioneer calculated the sum of the organic compounds from each of the soil samples analyzed, using the value of the corresponding detection limit when the compound was not detected. The sum of the organic COCs from the most contaminated soil sample analyzed, B-1 (3'-6'), totaled 121 ppm (Table No. 1). Therefore, based on the analytical results of the soil samples collected, and the comparison to the most stringent default attenuation capacity for the site (2,000 ppm), it has been demonstrated that the attenuation capacity of

the soil has not been exceeded; thus, this requirement has been satisfied.

• The concentrations of any organic COCs remaining in the soil shall not exceed the soil

saturation limit as determined under Section 742.220 (Section 742.305(b)).

The maximum concentration and the soil saturation limits of the Targeted COCs (with

melting points below 30°C) have been outlined below in Table 4.2.1. As illustrated, the

default soil saturation limits are not exceeded by the maximum concentration of any of the

Targeted COCs; therefore, this requirement has been satisfied for the subject property.

Table 4.2.1

Maximum Concentration of COCs
(with melting points below 30°C) and Soil

Saturation Limits

Targeted COCs	Maximum Concentration (ppb)	Soil Saturation Limit (ppb)
Tetrachloroethylene	110,000	240,000
Trichloroethylene	8,000	1,300,000
Cis 1,2 Dichloroethylene	3,300	1,200,000
Vinyl Chloride	46	1,200,000
Methylene Chloride	40	1,200,000

 Any soil which contains COCs shall not exhibit characteristics of reactivity for hazardous waste (Section 742.305(c));

Based on the physical and chemical properties and the relative concentrations of the contaminants identified at the site, it is unlikely that the soil at the subject property would exhibit the characteristics of reactivity as outlined in 35 IAC 721.123; thus, this requirement has been satisfied.

• Any soil which contains COCs shall not exhibit a pH less than or equal to 2.0 or greater than or equal to 12.5 (Section 742.305(d)); and

Based on the result of B-7 (3'-6'), the measured pH of the soil was 7.20 standard units (Appendix E); therefore, this requirement has been satisfied.

 Any soil which contains arsenic, barium, cadmium, chromium, lead, mercury, selenium or silver shall not exhibit any of the characteristics of toxicity for hazardous waste (Section 742.305(e)).

None of the metals listed above were identified as COCs based on the nature of the REC. Therefore, this condition has been satisfied by default.

Based on the preceding evaluation, exclusion of potential exposure pathways is possible at the subject property; however, as described below, additional criteria must also be satisfied

before a particular exposure pathway can be formally excluded from consideration at the site.

4.3 Groundwater Ingestion Pathway

Pursuant to Section 742.320, the groundwater ingestion exposure route, which includes migration from soil to groundwater and direct ingestion of groundwater, may be excluded from consideration if, in addition to the criteria previously outlined in Section 4.2 of this report, the criteria described below are also satisfied. It should be noted that the Village of Downers Grove does <u>not</u> have a groundwater ordinance as required by Section 742.320(d). As a result, elimination of the groundwater ingestion pathway is pursued from a regulatory context under Section 742.900(c)(6). However, the information requested by Section 742.320 is still provided in the subsequent text as it discusses relevant issues needed to support groundwater ingestion pathway elimination under a Tier 3 Evaluation pursuant to Section 742.925(b).

• Corrective action measures must be completed to remove any free product to the maximum extent practicable (Section 742.320(b));

No free product was identified during site assessment activities conducted within the source area or outside the source area; thus, this requirement has been satisfied.

• The source of the release is not located within the minimum or designated maximum setback zone or within a regulated recharge area of a potable water supply well (Section 742.320(c));

Pioneer conducted an Illinois State Geological Survey (ISGS) well search to locate potable water supply wells within a one-mile radius of the source. A review of the ISGS records revealed several private water wells and one community water supply well within 2,500 feet of the site (Appendix F). A representative from the Groundwater Section of the IEPA Bureau of Water informed Pioneer the setback zone for the public water supply well is 400 feet and that there is no regulated recharge area associated with this well. The setback zone for all remaining private wells is 200 feet. Pioneer was additionally informed no maximum setback zone was established for the public water supply well referenced previously. Based on the locations of these wells, the site is not located within the minimum or

designated maximum setback zone of any potable water well or any regulated recharge area. Therefore, this condition is satisfied.

• For any area within 2,500 feet from the source of the release, an ordinance adopted by the unit of local government is in place that effectively prohibits the installation of potable water supply wells (and the use of such wells) (Section 742.320(d));

Pioneer contacted the Village of Downers Grove to determine whether the Village has an ordinance prohibiting the installation of private wells for potable purposes and to determine where the Village gets its potable water supply. Pioneer was informed the Village obtains its public water supply from the City of Chicago, via the DuPage Water Commission, which uses Lake Michigan as its source of potable water. According to the Village representatives, the Village of Downers Grove has a municipal ordinance prohibiting the installation of private wells for potable purposes where municipal water is available within 250 feet. If a business or residence is not within 250 feet of the municipal water supply system, a private well may be installed for potable purposes. Private wells may also be installed solely for irrigation purposes. The remediation site is currently serviced with municipal water and since the site is located within 250 feet of a Village water main, the installation of a private well for potable purposes would be prohibited under the municipal ordinance. A copy of this ordinance is included as Appendix G. However, since the municipal ordinance is not approved by the IEPA for TACO purposes as required under Section 742.1015, this requirement is not satisfied.

Because this condition is not met, Pioneer continued to pursue the exclusion of the groundwater ingestion exposure route under a Tier 3 Evaluation as allowed by Section 742.900(c)(6). The purpose of this Tier 3 Evaluation is to prohibit the potable use of groundwater at the site through a <u>site-specific</u> groundwater use restriction pursuant to Section 742.925.

As previously mentioned, there was no obvious evidence of groundwater encountered during any of Pioneer's subsurface investigation activities and the site is not located within the minimum or designated maximum setback zone of an existing potable water supply well. Further, as described in Section 4.4 of this report, Equation R-14/R-26 modeling calculations show that any potentially impacted groundwater would not migrate off-site at

levels above the Class I GROs, based on maximum soil concentrations and corresponding, conservative *theoretical* groundwater contamination.

Based on the information provided in connection with the pathway exclusion justification under Section 742.925 (including Section 742.320), Pioneer believes it has been adequately demonstrated that both the soil and groundwater components of the groundwater ingestion exposure route can be excluded from consideration at this site, as allowed under a Tier 3 Evaluation (Section 742.900[c][6]). An institutional control, in the form of the NFR Letter for the site, will be utilized to prohibit the potable use of groundwater at the site.

4.4 Equation R-14 / R-26 Modeling

Equations R-14 and R-26 were utilized to model predicted future impacts associated with the residual soil contamination at the site. The source area was identified as the area beneath the former waste storage room and the floor drain discharge pipe outside the subject building and is delineated as shown on Figure 4.

Since there was no obvious evidence of groundwater at the site, Equation R-14 was used to predict theoretical groundwater impacts from soil contaminants leaching to groundwater. Maximum detected soil concentrations from actual samples collected from the site were used to predict the most conservative theoretical groundwater impacts (C_{source}). The corresponding C_{source} values were then inputted into Equation R-26 to evaluate the current and future potential for impacted groundwater to migrate as a result of the impacted soil leaching to groundwater.

The site-specific input values required for Equation R-14 include the hydraulic conductivity (K), the hydraulic gradient (i), pH, fraction of organic carbon (f_{∞}) and source area dimensions as described below.

Hydraulic Conductivity (K)

According to the Berg Circular for "E" type soils, typical hydraulic conductivity values range from 10⁻⁹ to 10⁻⁷ cm/s. However, Pioneer used a hydraulic conductivity value of 10⁻⁵ cm/s as a conservative measure.

• Hydraulic Gradient (i)

Pioneer used a hydraulic gradient of 0.01 ft/ft for the calculations. This is a very conservative value given the lack of groundwater observed during the subsurface investigation.

pH

Pioneer used a site-specific pH of 7.20 standard units as measured from the site's soil (B-7[3'-6']).

Organic Carbon (f_∞)

Pioneer used a site-specific f_{∞} value of 1.08% (B-14 [3'-6']) as measured from the site's soil.

Source Area Dimensions (W, S, X)

Site-specific source area parameters used in the R-14/R-26 calculations are shown on Figure 4. These parameters include: width of source area parallel to the direction of groundwater movement (W); source width perpendicular to the groundwater flow direction in the horizontal plane (S_w); and the distance along the centerline of the groundwater plume in the direction of groundwater flow (X). Since the eastern property line is closest to the source area, the distance from the source to the eastern property line was used as 'X' to provide the most conservative result for the R-26 modeling calculation. Remaining parameters are IEPA default values found in 35 IAC 742. Results of Equation R-26 calculations indicated that the Class I GROs would be achieved at the nearest property border (i.e. eastern property line). The R-14/R-26 modeling calculations are included in Appendix H.

4.5 Tier 2 Soil Evaluation

Since the groundwater ingestion pathway and the soil component of the groundwater ingestion pathway have been eliminated under a Tier 3 Evaluation, the remaining pathways (i.e. inhalation, ingestion) were evaluated under a Tier 2 Evaluation. Given the site's intended industrial/commercial redevelopment, Pioneer developed industrial/commercial Tier 2 SROs for the inhalation and ingestion pathways in order to calculate higher, yet acceptable remediation objectives. Pursuant to Subparts F and G of the Part 742 regulations, Tier 2 SROs may be developed utilizing site-specific information and are considered to be equally protective of human health and the environment even though they are less stringent than the conservative Tier 1 SROs.

As outlined in Section 742.600(e), prior to developing Tier 2 SROs for a site, certain minimum requirements must be evaluated and satisfied. These requirements are provided below and are followed by an explanation of how they apply to the subject property.

• The sum of all organic COCs shall not exceed the attenuation capacity of the soil (Sections 742.600(e)(1) and 742.215);

This condition has been met as previously outlined in Section 4.2.

• If more than one noncarcinogenic COC at the site affects the same target organ, the calculated remediation values shall be corrected for cumulative effects (Sections 742.600(e)(2) and 742.720);

Of the site's Targeted COCs (PCE, TCE, DCE, VC and MC), DCE is the only noncarcinogenic COC. Because not more than one noncarcinogenic COC is present at the site, remediation values were not corrected and this requirement is satisfied.

• For any organic COC with a melting point below 30°C, the concentration remaining in the soil shall not exceed the soil saturation limit (Sections 742.600(e)(3) and 742.220).

This condition has been met as previously discussed in Section 4.2 (See Table 4.2.1).

Since each of these initial conditions was satisfied, a Tier 2 analysis was considered valid for the subject property. Therefore, Pioneer established Tier 2 SROs for both of the remaining exposure pathways (i.e. inhalation and ingestion). Pioneer utilized the Soil Screening Level (SSL) equations as provided in Section 742.710 to calculate the Tier 2 values. Tier 2 SROs were calculated utilizing a widely accepted third-party software program (TACO PROTM [2.0]). Tier 2 SROs were calculated for two populations, industrial/commercial workers and commercial workers.

Site-specific variables used during the Tier 2 calculations were limited to include only the measured pH (7.20), the organic carbon fraction of the soil collected from the site (1.08%), and the finite source area dimensions (Figure 4). The IEPA default values provided in Appendix C of the Part 742 regulations were used for all remaining parameters. See Appendix H for a copy of the appropriate IEPA Tier 2 data worksheets containing the Tier 2 SROs calculated for the Targeted COCs as well as a list of the TACO equations used to develop the Tier 2 SROs. Table 4.5.1 compares maximum site concentrations of the targeted COCs to the Tier 2 SROs calculated for the industrial/commercial populations as they are more stringent than the Tier 2 SROs calculated for the construction worker population as required by Section 742.600(h) (Appendix H).

TABLE 4.5.1
Tier 2 Industrial/Commercial SROs
The Morey Corporation
2659 Wisconsin Street / Downers Grove, Illinois

сос	Maximum Site Concentration	Ingestion (Ind/Comm)	Inhalation (Ind/Comm)	C 🔟 (Surficial)
Tetrachloroethylene	110,000	110,062	144,728	382,949
Trichloroethylene	8,000	520,291	49,378	2,168,731
cis-1,2-Dichloroethylene	3,300	20,440,000	1,801,007	1,801,007
Vinyl Chloride	46	3,012	999	1,402,301
Methylene Chloride	40	763,093	178,600	3,160,595

All concentrations in µg/kg.

As indicated by a comparison of the maximum detected concentrations at the site to the most stringent industrial/commercial Tier 2 SROs calculated using TACO equations (Table No. 4.5.1), it was determined that the concentrations of COCs at the site are all less than the calculated Tier 2 SROs for industrial/commercial land use. Therefore, given the elimination of the groundwater ingestion pathway and the use of Tier 2 SROs, the actual risk posed by the residual COCs has been mitigated and the impacted soil may be adequately managed in-place.

5.0 FINDINGS

5.1 Summary

Pioneer was contracted by MC Holdings, Inc. (Remediation Applicant / client) to conduct a "focused" site investigation and provide environmental consulting services for the subject site located at 2659 Wisconsin Street in Downers Grove, Illinois (Figure 1). The purpose of the site investigation was to determine/verify whether subsurface soils had been impacted by VOC-contamination and then use the regulatory options provided in 35 IAC Parts 740 and 742 to address the impacts and obtain a "focused" No Further Remediation Letter for the remediation site. Pioneer was informed by the owner that the soils near the east-central portion of the subject building were impacted with VOC contamination related to accidental spills of cleaning solvents in a waste storage room during past facility operations.

Pioneer mobilized to the subject site to perform site characterization work on August 28 and 29, 2000. As a result, 15 soil borings were advanced at various locations on the subject site and select samples were analyzed for VOCs, the COCs established based on the source.

The Tier 1 Evaluation revealed that soil was impacted by certain chlorinated VOCs above industrial/commercial Tier 1 SROs to varying degrees. The assessment activities indicated the contamination was mainly present beneath the building and pavement within the source area and from near surface grade to approximately six feet BSG near the eastern portion of the subject site. Based on the results of the soil testing, the horizontal and vertical extent of contamination was adequately defined.

Pioneer then performed an endangerment assessment in accordance with TACO regulations to justify the elimination of the groundwater ingestion pathway (soil migration to groundwater) and to develop Tier 2 SROs for the targeted COCs at the site. The groundwater ingestion pathway was eliminated under a Tier 3 Evaluation pursuant to Section 742.925. Equations R-14 and R-26 were utilized to evaluate the potential for

theoretical, predicted future groundwater impacts to migrate. Results of the conservative modeling calculations indicated that the *potential* concentrations of COCs in groundwater would <u>not</u> migrate off-site at concentrations exceeding the Class I GROs as modeled from the source area to the nearest property boundary (Figure 4, Appendix H).

Pioneer then developed Tier 2 SROs for industrial/commercial and construction worker populations to address the remaining exceedances of the Tier 1 SROs for the ingestion and inhalation pathways. The only site-specific variables used for the Tier 2 calculations were the finite source area dimensions (Figure 4), pH (7.20) and the fraction of organic carbon (1.08%); TACO default values were used for all other parameters. Maximum soil contaminant concentrations were compared to the calculated Tier 2 SROs. Since there were no actual site concentrations that exceeded the most stringent calculated Tier 2 SROs (Table 4.5.1), it was determined that no further investigation was warranted and the residual contamination could be adequately managed in-place. A Site Base Map showing the area of contaminants remaining in-place is included as Figure 5.

5.2 Conclusions

Based on the site characterization work which has adequately defined the nature and extent of contamination and the endangerment assessment performed in accordance with the TACO regulations, Pioneer has demonstrated that the applicable remediation objectives have been achieved and that the risk associated with the soil contamination identified at the subject site can be adequately managed in-place. Thus, Pioneer maintains that no further remedial action is warranted in connection with the subsurface impacts identified at the subject site. In addition, Pioneer believes the site conditions warrant the issuance of a "focused" No Further Remediation Letter from the IEPA as acknowledgment of formal site closure in accordance with 35 IAC 740.430 and 415 ILCS 5/58.10 of the Illinois Environmental Protection Act. Pioneer respectfully requests the NFR letter include the following conditions and institutional controls:

The land use is limited to industrial/commercial use;

- No person shall construct, install, maintain, or operate a water system or well at the remediation site for potable purposes;
- There are no engineering controls;
- Any contaminated soil (or groundwater) that is removed, excavated, or disturbed from the subject property must be handled in accordance with applicable laws and regulations; and
- The NFR Letter shall be recorded as a permanent part of the chain of title for the subject property and serve as an appropriate institutional control.

6.0 CLOSING REMARKS

This report has been prepared for the sole use of the client identified in the report and evaluation by the Illinois EPA, and can not be relied upon by other persons or entities without the joint permission of the client and Pioneer Environmental, Inc. (Pioneer). The observations and conclusions contained herein are limited by the scope and intent of the work mutually agreed upon by the client and Pioneer and the work actually performed. There are no warranties, implied or expressed, concerning the environmental integrity of areas and/or mediums not analytically tested.

7.0 REFERENCES

American Society for Testing and Materials. 1984. "Standard Method for Penetration Test and Split-Barrel Sampling of Soils". (ASTM D1586). Reprinted from *Annual Book of ASTM Standards*, Vol 04.08.

Berg, Richard C. et al. 1984. Potential for Contamination of Shallow Aquifers in Illinois. Illinois State Geological Survey Circular 532.

Berg, Richard C. and Kempton, John P. 1988. Stack-unit Mapping of Geologic Materials in Illinois to a Depth of 15 Meters. Illinois State Geological Survey Circular 542.

Illinois Pollution Control Board. 1997. Site Remediation Program. Title 35 Illinois Administrative Code Part 740. Springfield, IL.

Illinois Pollution Control Board. 1997. Tiered Approach to Corrective Action Objectives. Title 35 Illinois Administrative Code Part 742. Springfield, IL.

Willman, H.B. 1971. Summary of the Geology of the Chicago Area. Illinois State Geological Survey Circular 460.

Morey Corporation Chemical Inventory by Product Name

Acti-Brite

Acid Cleaner

3880 Adhesive Elect. Cond.

Air Dry Enamel (Glyptal) Air Lube

Alkyd Resin Solution - Glyptal Aluminum Alloys

Alloy Steel

Ammonium Hydroxide - (Liquid Mask) BE Series Baking Epoxy Ink

Bobbing Compound

Brass

Bronze

BSC - 93 - PC

Carbon Steel

Castle Metals - variety

Catalyst 23 LV

Cleaner 320

Copper

octite ODC cleaner and degreaser - 20260 ho-Therm 1674 Solvent Based Silicone

3L 588 Electronic Grade Sealant/Adhesive

lesstic TK 460 Lubricating Oil

v Corning High Vacuum Grease

Corning (4) Electrical Insulating Compound Corning (R) 340 Heat Sink Compound

ube Aerosol Lubricant 2W757-BT.F.E. FR Black Epoxy Resin

ond A-401-37

el 1265 Clear, Part A

1 1265 Part B

ip 93 Organic Solvent

eric Rubber Flange Sealant

olor Paste Black

us Medicated First Aid Spray alant 509 850 c

Anaerobic Gasket Flange Sealant

March March

MATERIAL SAFETY DATA SHEET SLIDE PRODUCTS, INC. 430 S. WHEELING RD. WHEELING, IL 60090

PRODUCT NAME: SLIDE EPOXEASE AEROSOL

EMERGENCY TELEPHONE: 800-535-5053 INFORMATION TELEPHONE: 847-541-7220

D.U.N.S. NUMBER: 00-299-4168 PREPARED BY: MICHAEL MUTH

REVISION DATE: 6-1-97 PRODUCT NUMBER: 40616T FAX NUMBER: 847-541-7986

SECTION I. IDENTIFICATION

CHEMICAL NAME: SYNTHETIC WAX DISPERSION CHEMICAL FAMILY: SYNTHETIC WAX

FORMULA: 40616T SYNONYMS: EPOXEASE

DOT HAZARD CLASSIFICATION: ORM-D

DOT SHIPPING NAME: CONSUMER COMMODITY

CHEMICAL ABSTRACT REGISTRY NUMBER: N/A, MIXTURE

IDENTIFICATION NUMBER: NONE

H.M.I.S. RATING: 1,3,0,1

SECTION II. PHYSICAL DATA

DATA IN SECTION II APPLIES TO CONCENTRATE BEFORE ADDING PROPELLANT

BOILING POINT: 103-337 DEGREES F. FREEZING POINT: < -40 DEGREES F.
SPECIFIC GRAVITY: (H20 = 1): 1.02
WEIGHT PER GALLON @ 60 F.: 8.58
VAPOR PRESSURE @ 70 F. (MM HG): 350

VAPOR DENSITY (AIR = 1): > 1 SOLUBILITY IN WATER, % BY WT.: NIL PERCENT VOLATILE BY WEIGHT: 96 **EVAPORATION RATE (MINUTES): 20**

APPEARANCE AND ODOR: OPAQUE BROWN LIQUID - CHLORINATED SOLVENT ODOR

SECTION III. HAZARDOUS INGREDIENTS

MATERIAL: APPROX. WEIGHT %: CAS NUMBER: PEL (OSHA) TRICHLOROETHYLENE ** 55-65 79-01-6 100 PPM 7PROPANE A-108 10-20 74-98-6 1000 ALIPHATIC NAPHTHA 20-26 68513-03-1* 130 SYNTHETIC WAX 1-6 MIXTURE N/A

##CONTAINS NO OZONE DEPLETING CHEMICALS##

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA DIRECTORY

**)SEE SECTIONS X AND XI FOR DETAILED CAUTIONS

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE LIMITS IN AIR:

LEL: 1.0

UEL: 9.5

(VOLUME %)

FLASH POINT: N/A

SPECIAL FIRE FIGHTING PROCEDURES: CHLORINATED HYDROCARBON FORM HCL, HF AND TRACES OF PHOSGENE UPON PYROLYSIS.

UNUSUAL FIRE & EXPLOSION HAZARDS: AEROSOLS MAY RUPTURE VIOLENTLY AT TEMPERATURES ABOVE 120' F.

	3.05 FORY *	0370		Rece:	e Order iver Det OLD RELE		09:28:02	5/10/01
Vendor	Disp	P.O.	Rec No	Lin	Date	Received	Billed	Whse
6515	STOCK	66030	7215	10	80592	12.000	.000	SR
6515	STOCK	66565	8718	10	90992	24.000	.000	SR
6515	STOCK	67366	10799	10	102992	48.000	.000	SR
6515	STOCK	72277	22881	10	91093	48.000	48.000	SR
6515	STOCK	76081	30920	10	42194	24.000	24.000	SR
6515	STOCK	84281	47580	10	21395	60.000	60.000	SR
9855	STOCK	93680	76578	10	31596	12.000	12.000	SR
9855	STOCK	93681	76959	10	32196	12.000	12.000	SR
9855	STOCK	93803	80533	10	51796	24.000	24.000	SR
6888	STOCK	94675	81377	10	53096	12.000	12.000	SR
9855	STOCK	95284	105940	30	42897	24.000	2.000	SR
9855	STOCK	106316	129137	10	42798	24.000	24.000	SR
9855	STOCK	108583	141329	10	113098	12.000	12.000	SR

F3=Exit

F7=Fold

F12=Previous

Purchase Order Inquiry 09:28:35 5/10/01 PO0151.09 1

Purchase Order Line Item Summary

Purchase	Orders by	Product	1090370	GEN LUB	MOLD RELEASE		
P.O. 110590 116904	Line 10 10	Vendor 6888 6888	Received 34.000 32.000	Ordered 34.000 39.000	.000	SR	Expected 12/27/19 12/27/19

F13=Prod Rls Inq F17=LINE:Item Rls Inq F19=LINE:P.O. Rls Inq F3=Exit F7=Fold F12=Cancel

	•				
			•		
				•	

LIST OF FIGURES

Figure 1: Area Map
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Figure 3: Soil Boring Locations
Figure 4: Tier 1 SRO Exceedances

Figure 5: Site Base Map

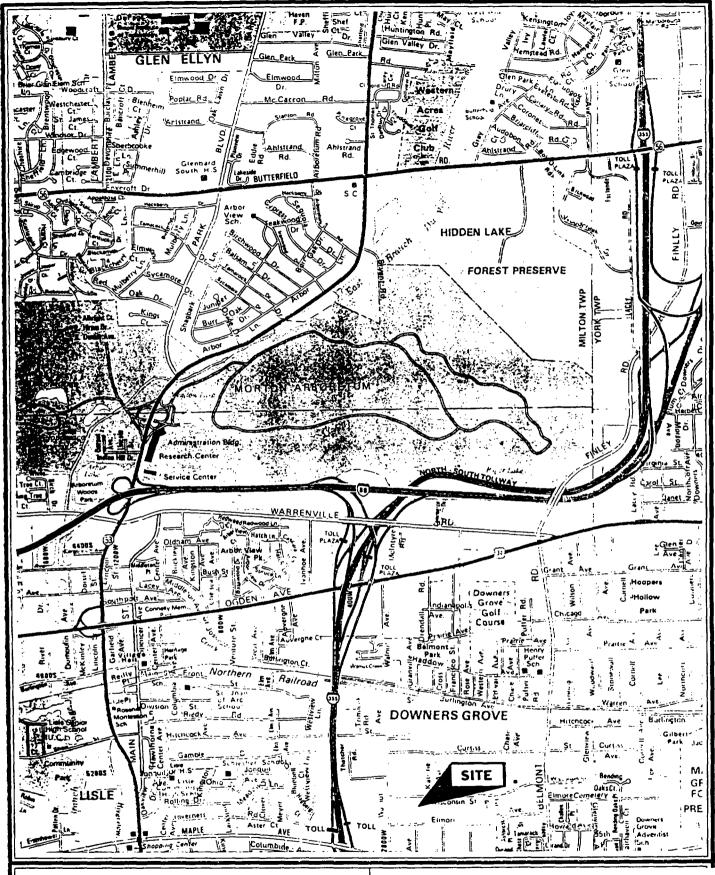
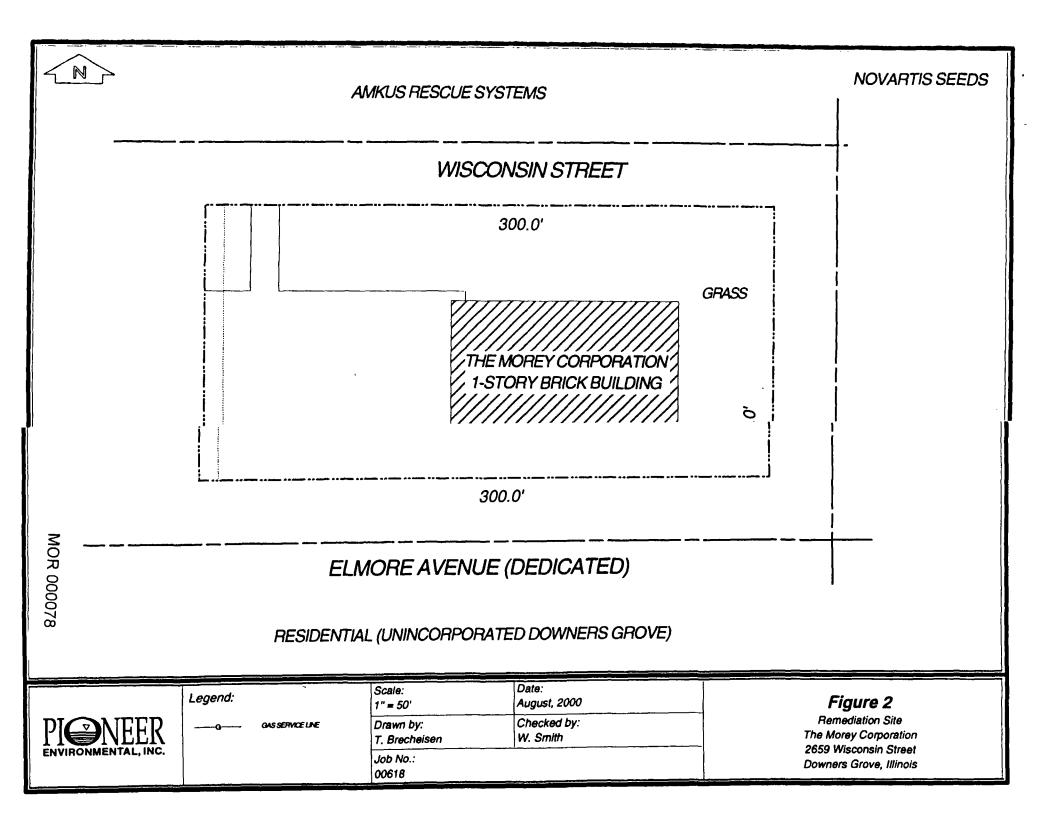


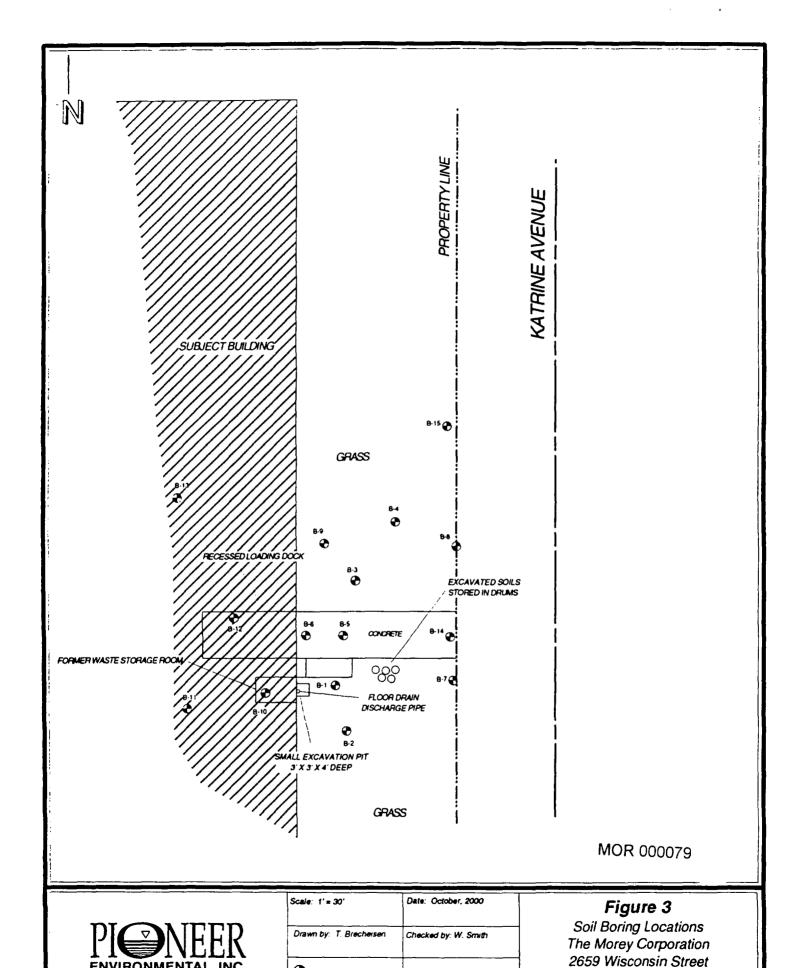


FIGURE 1 Area Map

MOR 000077

DATE: 1999

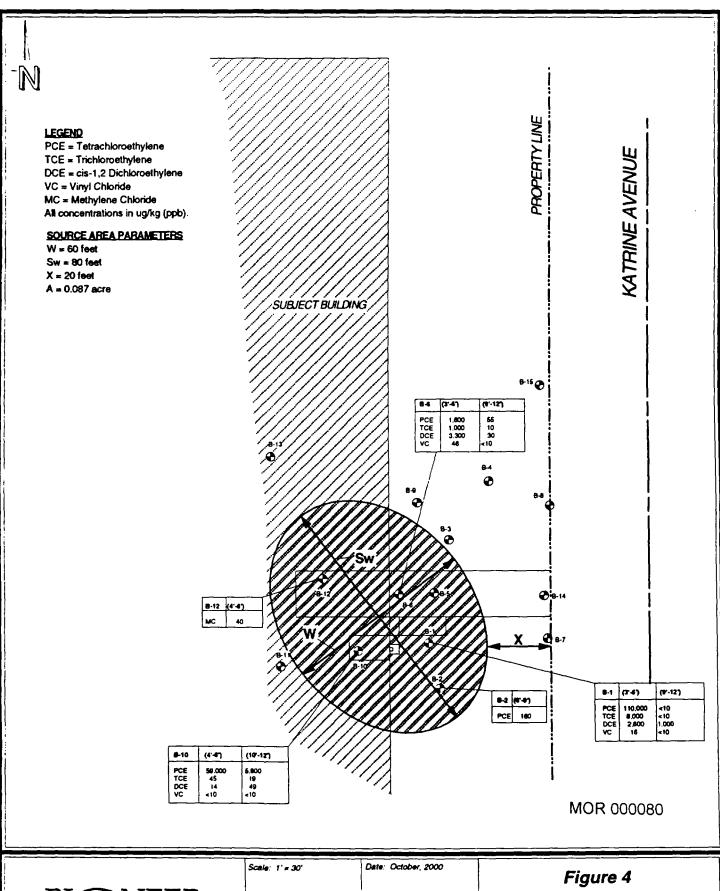




Soil Bonng Location

Job No. 00618

Downers Grove, Illinois





Scale: 1' = 30'	Date: October, 2000
Drawn by: T. Brecheisen	Checked by: W. Smith
Soil Boring Location	Job No. 00618

Tier 1 SRO Exceedances
The Morey Corporation
Downers Grove, Illinois

SITE BASE MAP
0430305029 - COOK COUNTY
DOWNERS GROVE / 2859 WISCONSIN STREET
SITE REMEDIATION PROGRAM

LIST OF TABLES

Table 1: Soil Analytical Results: VOCs

TABLE NO. I (page 1 of 2) Soil Sample Analytical Results: Illinois VOCs The Morey Corporation 2659 Wisconsin Street / Downers Grove, Illinois

									Route Spec	ific Values		Soil Com Groundwate		Soil Saturation
F						-		Industrial - (Commercial	Construction	n Worker	Ехрозиг	e Route	Limit
ANALYTE	B·1 (3'-6')	B-1 (9'-12')	B-2 (6'-9')	B-3 (3'-6')	B-5 (6'-9')	B-6 (3'-6')	B-6 (9'-12')	Ingestion	Inhalation	Ingestion	Inhalation	Class I	Class II	c_
2-Butanone	<100	<10.0	<10.0	<10.0	<100	<100	<10.0	1						
Methyl isobutyl ketone	<10.0	<100	<10.0	<10.0	20	<10.0	<100			,				
4-Methyl-2-Pentanone	<100	<100	<100	<10.0	<10.0	<10.0	<100				•-			
1.1-Dichluroethane	<10.0	<100	<10.0	<10.0	<10.0	<100	<10.0	200,000,000	1,700,000	200,000,000	130,000	23,000	110,000	1,700,000
1.1-Dichloroethene	<100	<10.0	<100	<10.0	<100	18	<100	18,000,000	1,500,000	1,800,000	1,500,000	60.0	300	1,500,000
1,2-Dibromo-3-chloropropane	<10.0	<10.0	<10.0	<10.0	<10.0	<100	<10.0	4.000	17,000	89,000	110	2.0	20	1,400,000
1.2 Dibromoethane	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	70.0	320	1,500	450	0.4	4.0	2,800,000
1.2-Dichloroethune	<10.0	<100	<10.0	<10.0	<10.0	<10.0	<10.0	63,000	700	1,400,000	990	20.0	100	1,800,000
1,2-Dichloropropane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	84,000	23,000	1,800,000	500	30 0	150	1,100,000
1,3-Dichluropropene (total)	<100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	33,000	230	610,000	330	4.0	20 0	1,400,000
1.1.1-Trichloroeshane	<10.0	<10.0	<100	<10.0	<10.0	<10.0	<10.0	3.5,500	1,200,000	0.0.000	1,200,000	2,000	9,600	1,200,000
1.1.2-Trichloroethane				<10.0	<10.0	<10.0	<10.0	8,200,000	1,800,000	8,200,000	1,800,000	20.0	300	1,800,000
1,1,2,2-Tetrachloroethane	<10.0	<100	<10.0		i	1	<10.0	8,200,000	1,800,000	8,200,000	1,800,000	20.0		1,800,000
	<10.0	<10.0	<10.0	<10.0	<100	<10.0	1	200,000,000	100,000,000	200,000,000	100,000,000	16,000	16,000	100.000.000
Acetone	<10.0	<100	<10.0	<10.0	1	<10.0	<10.0	200,000	1,500	4,300,000		30.0	170	
Benzene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	92,000	3,000,000	2,000,000	2,100	600		870,000
Bromodichloromethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<100		1 /		3,000,000		600	3,000,000
Bromoform	<10.0	<100	<10.0	<10.0	<10.0	<10.0	<10.0	720,000	100,000	16,000,000	140,000	800	800	1,900,000
Bromomethane	<100	<10.0	<10.0	<10.0	<10.0	<10.0	<100	2,900,000	15,000	1,000,000	3,900	200	1,200	3,200,000
Butanol	<10.0	<10.0	<i0.0 td="" ∖<=""><td><100</td><td><10.0</td><td><10.0</td><td><10.0</td><td>200,000,000</td><td>10,000,000</td><td>200,000,000</td><td>10.000,000</td><td>17,000</td><td>17,000</td><td>10,000,000</td></i0.0>	<100	<10.0	<10.0	<10.0	200,000,000	10,000,000	200,000,000	10.000,000	17,000	17,000	10,000,000
Carbon Disulfide	<100	<10.0	<100	<10.0	<10.0	<10.0	<100	200,000,000	720,000	20,000,000	9,000	32,000.0	160,000	720,000
Carbon Tetrachloride	<10.0	. <100	<10.0	<10.0	<10.0	<10.0	<10.0	44,000	640	410,000	900	70 0	330	1,100,000
Chlorobenzene	<10.0	<10.0	<i0'0< td=""><td><10.0</td><td><100</td><td><10.0</td><td><10.0</td><td>41,000,000</td><td>210,000</td><td>4,100,000</td><td>1,300</td><td>1,000</td><td>6,5(X)</td><td>000,086</td></i0'0<>	<10.0	<100	<10.0	<10.0	41,000,000	210,000	4,100,000	1,300	1,000	6,5(X)	000,086
Chlorodibromomethane		<100	<10.0	<10.0	_ <10.0	<10.0	i <10.0	41,000,000	1,300,000	41,000,000	1,300,000	400	400	1,300,000
Chloroethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		· ••					
Chloroform	<100	<10.0	<10.0	0.0</td <td><10.0</td> <td><10.0</td> <td><10.0</td> <td>940,000</td> <td>540</td> <td>2,000,000</td> <td>760</td> <td>600</td> <td>2,900</td> <td>2,900,000</td>	<10.0	<10.0	<10.0	940,000	540	2,000,000	760	600	2,900	2,900,000
Chloromethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0] }	••] <u></u>			!	
cis 1,2-Dichloroethene	2,600	1,000	<10.0	<10.0	<10.0	3,300	30	20,000,000	1,200,000	20,000,000	1,200,000	400	1,100	1,200,000
Eihylbenzene	<10.0	<10.0	<10.0	<10.0	<100	<10.0	! <10.0	200,000,000	400,000	20,000,000	58,000	13,000	19,000	400,000
Methylene Chloride	<10.0	<10.0	<100	<10.0	<100	<10.0	<10.0	760,000	24,000	12.000.000	34,000	20.0	200	2,400,000
Styrene	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	410,000,000	1,500,000	41,000,000	430,000	4,000	18,000	1,500,000
Tetrachloroethene	110,000	<10.0	160	<10.0	<10.0	1,600	55	110,000	20,000	2,400,000	28,000	60.0	300	240,000
Toluene	<10.0	<10.0	<10.0	<10.0	<10.0	14	<10.0	410.000.000	650,000	410.000.000	42,000	12,000	29,000	650,000
trans 1.2-Dichloroethene	35	22	<10.0	<10.0	<10.0	91	<10.0	41,000,000	3,100,000	41,000,000	3,100,000	700	3,400	3,100,000
Trichloroethene		<10.0	<10.0	<10.0	<10.0	1,000	10	520,000	8,900	1,200,000	12,000	60.0	3,400	1,300,000
	_ 8,000		1	<10.0 <10.0	<10.0	, ,	<10.0	1,000,000,000	1,600,000	200,000,000		t e		
Vinyl Acetate	<10.0	<10.0	<10.0	=		<10.0		3.000			10,000	170,000.0	170,000.0	2,700,000
Vinyl Chloride	16	<10.0	<10.0	<10.0	<10.0	46	<100		60.0	65,000	80.0	10.0	700	1,200,000
Xylenes (total)	<30 0	<300	<30.0	<30.0	<300	<30.0	<30.0	1,000,000,000	410,000	410,000,000	410,000	150,000	150,000	410,000

Notes:

Results listed in µg/kg (parts per billion-ppb) EPA test method SW846, 8260/5035

Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 SRO

[&]quot;<" indicates not detected at stated detection limits

[&]quot;--" indicates value not available

⁽¹⁾ Pursuant to 35 IAC 742 - Tiered Approach to Corrective Action Objectives

TABLE NO. 1 (page 2 of 2) Soil Sample Analytical Results: Illinois VOCs The Morey Corporation 2659 Wisconsin Street / Downers Grove, Illinois

										emediation Objecti IaUCommercial Pr		······································		
									Route Specij	ic Values		Soil Com Groundwale	Soil Saturation	
								Industrial -	Commercial	Constructi	on Worker	Ехрозия	re Route	Limit
ANALYTE	B-7 (3'-6')	B-10 (4'-6')	B-10 (10'-12')	B-11 (4'-6')	B-12 (4'-6')	B-13 (6'-8')	B-14 (6'-9')	Ingestion	Inhelation	Ingestion	Inhalation	Class I	Class II	c
2-Rutanone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0				•			<u></u> -
2-Hexanone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0			- · · · · · · · · · · · · · · · · · · ·			1	
4-Methyl-2-Pentanone	<10.0	<10.0	<10.0	<10.0	<100	<100	<10.0				· · ·		ļ ·	ļ <u></u>
1.1 Dichloroethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,000,000	1,700,000	200,000,000	130,000	23,000	110.000	1.700.000
1.1-Dichloroethene	<10.0	<10.0	<10.0	<10.0	<10.0	<100	<10.0	18,000,000	1,500,000	1,800,000	1,500,000	60.0	300	1,500,000
1,2-Dibromo-3-chloropropane	<100	<10.0	<10.0	<10.0	<10.0	<100	<10.0	4.000	17,000	89,000	110	2.0	20	1,400,000
1,2-Dibromoethane	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	70.0	320	1,500	450	0.4	40	2,800,000
1,2-Dichloroethane	<10.0	<10.0	<10.0 <10.0	<10.0	<100	<10.0	<10.0	63,000	700	1,400,000	990	20.0	100	1.800,000
1,2-Dichloropropane	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	84.000	23,000	1,800,000	500	30.0	150	1,100,000
	1 .	1 .	1 -	<10.0	<10.0	<10.0	<10.0	33,000	230	610,000	330	4.0	20.0	1,400,000
1,3-Dichloropropene (total)	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	35,000	1,200,000	4.000	1,200,000	2,000	9,600	1,200,000
1.1.1-Trichloroethane	<10.0	<10.0	<10.0	<10.0		4		8,200,000	1,800,000	8,200,000	1,800,000	20.0	300	1,800,000
1,1,2-Trichloroethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	8,2(10,010	1,000,000	6,200,000	1,600,000	20.0	Į.	l ' '
1,1,2,2-Tetrachlorvethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		200,000,000	100,000,000	200,000,000	100,000,000	16,000	16,000	100,000,000
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,000,000	1,500	4,300,000	2,100	30.0	170	870,000
Benzene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	92,000	3,000,000	2,000,000	3,000,000	600	600	3.000.000
Bromodichloromethane	<10.0	<10.0	<10.0	_ <10.0	<10.0	<10.0	<10.0	720,000	100,000	16,000,000	140,000	800	800	1,900,000
Bromoform	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0			1,000,000				
Fromomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<100	2,900,000	15,000		3,900	200	1,200	3,200,000
Butanol	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	200,000,000	10,000,000	200,000,000	10,000,000	17,000	17,000	10,000,000
Carbon Disulfide	<100	<10.0	<i0.0< td=""><td><10.0</td><td><10.0</td><td><10.0</td><td><10.0</td><td>200,000,000</td><td>720,000</td><td>20,000,000</td><td>9,000</td><td>32,000.0</td><td>160,000</td><td>720,000</td></i0.0<>	<10.0	<10.0	<10.0	<10.0	200,000,000	720,000	20,000,000	9,000	32,000.0	160,000	720,000
Carbon Tetrachloride	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	44,000	640	410,000	900	70.0	330	1,100,000
Chlorobenzene	<100	<10.0	_ ≤10.0	<u><</u> 10.0	<10.0	<10.0	<10.0	41,000,000	210,000	4,100,000	1,300	1,000	6,500	680,000
Chlorodibromomethane	<10.0	_<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	41,000,000	1,300,000	41,000,000	1,300,000	400	400	1,300,000
Chloroethane	<10.0	<10.0	<10.0	<10.0	<10.0	≤10.0	<10.0				••			
Chloroform	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	940,000	540	2,000,000	760	60 <u>0</u>	2,900	2,900,000
Chloromethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	}			 .			
cis 1,2-Dichloroethene	<10.0	14	49	<10.0	<10.0	<10.0	<10.0	20,000,000	1,200,000	20,000,000	1,200,000	400	1,100	1,200,000
Ethylbenzene	<10.0	<10.0	<10.0	<10.0	<10.0	≤100	<10.0	200,000,000	400,000	20,000,000	58,000	13,000	19,000	400,000
Methylene Chloride	<10.0	<10.0	<10.0	<10.0	40	<10.0	<10.0	760,000	24,000	12,000,000	34,000	20.0	200	2,400,000
Styrene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	410,000,000	1,500,000	41,000,000	430,000	4,000	18,000	1,500,000
Tetrachloroethene	<10.0	59,000	5,800	<10.0	<10.0	<10.0	<10.0	110,000	20,000	2,400,000	28,000	60.0	300	240,000
Toluene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	410,000,000	650,000	410,000,000	42,000	12,000	29,000	650,000
trans 1,2-Dichloroethene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	41,000,000	3,100,000	41,000,000	3,100,000	700	3,400	3,100,000
	<10.0	45	19	<10.0	<10.0	<10.0	<10.0	520,000	8,900	1,200,000	12,000	60.0	300	1,300,000
Trichloroethene		1		<10.0	<10.0	<10.0	<10.0	1,000,000,000	1,600,000	200,000,000	10,000	170,000.0	170,000.0	2,700,000
Vinyl Acetate	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	3,000	60.0	65,000	80.0	170,000.0	70.0	1,200,000
Vinyl Chloride	<10.0	<10.0	<10.0	<10.0		i -	1		, . . .	1		1		
Xylenes (total)	<30.0	<30.0	15	<30.0	<30.0	<30.0	<30.0	1,000,000,000	410,000	410,000,000	410,000	150,000	150,000	410,000

Notes:

Results listed in µg/kg (parts per billion-ppb)

EPA test method SW846, 8260/5035

Shaded/Bolded cell indicates concentration detected above most stringent Tier 1 SRO

[&]quot;<" indicates not detected at stated detection limits

[&]quot;--" indicates value not available

⁽¹⁾ Pursuant to 35 IAC 742 - Tiered Approach to Corrective Action Objectives

APPENDIX A

SRP Enrollment Forms
Property Identification Number
Legal Property Description

Illinois Environmental Protection Agency Bureau of Land Remedial Project Management Section 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

Site Name: The Morey Corporation

	INOIS EPA USE:
\$500 A	dvance Partial Payment Included
DRM-2	SRP Form Included
DRM-3	Request for Assessment Included
DRM-4	Tax Credit Budget Plan Included
DRM-4	Tax Credit Budget Plan Included

Site Remediation Program Application and Services Agreement (DRM-1) Form

L Site Identification:

Street Address: 2659 Wisconsin Street	
City: Downers Grove	ZIP Code: 60515
County: Cook	Approximate Size of Site (Acres): 3.9
Illinois Inventory I. D. Number: 0430305029	U.S. EPA I.D. Number : ILD025415266
Site Base Map Attached 🗾 Illinois EPA Pern	
LUST/IEMA Incident Number(s), if applicable:	NA
IL Remediation Applicant ("RA"):	
RA's Name: Dana Morey	Title: Co-Owner
Company: MC Holdings, Inc.	
Street Address: 100 Morey Drive	
City: Woodridge	State: IL ZIP Code: 60517
Phone: 630.754.2124 FEIN	or SSN: 36-4077561
eligibility criteria set forth in Section 58.1(a)(2) of promulgated thereunder and that this submittal and EPA's agreement to provide (subject to applicable	plication and services agreement. I certify that the proposed project meets the the Environmental Protection Act (415 ILCS 5/58.1(a)(2)) and regulations all all attachments were prepared at my direction. In consideration for the Illinois law, available resources, and receipt of the advance partial payment) review and ant to Title 17 of the Illinois Environmental Protection Act (415 ILCS 5/58-58.12), I
agree to:	
(1) Conform with the procedures of Title 17 implementing regulations;	of the Illinois Environmental Protection Act (415 ILCS 5/58 - 58.12) and or other site evaluations by the Illinois EPA when requested;
 (1) Conform with the procedures of Title 17 cimplementing regulations; (2) Allow for or otherwise arrange site visits 	
 (1) Conform with the procedures of Title 17 implementing regulations; (2) Allow for or otherwise arrange site visits (3) To pay any reasonable costs incurred and 	or other site evaluations by the Illinois EPA when requested;
 (1) Conform with the procedures of Title 17 implementing regulations; (2) Allow for or otherwise arrange site visits (3) To pay any reasonable costs incurred and (4) Make an advance partial payment to the I As the Remediation Applicant, I understand that I writing that services previously requested under the 	or other site evaluations by the Illinois EPA when requested; I documented by the Illinois EPA in providing such services; and
 (1) Conform with the procedures of Title 17 implementing regulations; (2) Allow for or otherwise arrange site visits (3) To pay any reasonable costs incurred and (4) Make an advance partial payment to the I As the Remediation Applicant, I understand that I writing that services previously requested under the notice, the Illinois EPA shall provide me with a firenament. 	or other site evaluations by the Illinois EPA when requested; documented by the Illinois EPA in providing such services; and llinois EPA for such anticipated services provided in Section V of this application. may terminate this services agreement at any time, by notifying the Illinois EPA in the services agreement are no longer wanted. Within 180 days after receipt of the

III. Project Objectives:

A.	Release Letter Requested.	Comprehensive No Further Remediation	("NFR") Letter
	Please complete one of the subsections by checking applicable boxes and including other information (if necessary, additional information may be attached to this application form):	Focused NFR Letter Identify the focused contaminants of concern to Volatiles	PCBs Metals Pesticides
		4(y) Letter Identify the focused contaminants of concern Volatiles	PCBs Metals Pesticides Dicable boxes: Other:
	·		
B.	Identify any support services being sought from the Illinois EPA in addition to the review and evaluation services (if necessary, additional information may be attached to this application form):	✓ No additional support services are Assistance with community relation Environmental Remediation Tax C application) Sample collection and analyses Other (identify):	
C.	Anticipated Schedule	SRP Document	Projected Date of Receipt by Illinois EPA
		Site Investigation Report	11-1-2000
		Remediation Objectives Report	11-1-2000
		Remedial Action Plan	
		Remedial Action Completion report	11-1-2000
D.	Identify the current and post- remediation uses of the remediation site (if necessary, additional information may be attached to this application form):	Current Use: Vacant	
	application form).	Post-Remediation Use: Industrial/Comm	nercial

IV. Written Permission from the Property Owner (check <u>one</u> of the applicable boxes and provide additional information):

RA is the property owner of the	ne remediation site ide	ntified in Section I of th	is application.
RA is not the property owner	of the remediation site	identified in Section I o	of this application.
-			
• • • • · · · · · · · · · · · · · · · ·			
Company:			•
Street Address:			
			Phone:
enter upon the indicated premises in Owner's Signature: For multiple property owners, as certification for each.	or the purpose of cond	ducting remedial investig	t and designated representatives have permission to gations or activities. Date: Ormation above along with a signed, dated
V. Advance Partial Payı			
The Remediation Applicant shall s			•
			Please make the check payable to: "Treasurer, State of the Remediation Applicant's FEIN or SSN on the
anticipated costs of the Illin	ois EPA, not to exceed ted Services") must a	d \$5,000). A completed company this application	ment (i.e., approximately one-half of the total DRM-3 form ("Request for Assessment of Advance on so that the Illinois EPA may determine the
NOTE: Illinois EPA cannot refund	payments without a l	egislative appropriation.	Payment under Plan 1 accelerates the review process ment under Plan 2 may result in a larger advance

L If this application contains plans and reports for review and evaluation by the Illinois EPA, a completed Form DRM-2 must also accompany this submittal.

The Illinois EPA is authorized to require this information under Section 415 ILCS 5/58-58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your application being rejected. This form has been approved by the Forms Management Center. All information submitted as part of this Application is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines.

Illinois Environmental Protection Agency Bureau of Land Remedial Project Management Section 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

FOR ILLIN LOG NO.	OIS EPA USE:	

Site Remediation Program Form (DRM-2) (To Be Submitted with all Plans and Reports)

L Site Identification:					
Site Name: The Morey Corporat	ion				
Street Address: 2659 Wisconsin Street					
Downers Grove	Illipoir Inventory I. D. Number: 0430305029				
IEMA Insident Number NA	Illinois Inventory I. D. Number: 0430305029				
IEMA Incident Number:					
II. Remediation Applicant:					
Applicant's Name: Dana Morey	Company: MC Holdings, Inc.				
Street Address: 100 Morey Drive			· · · · · · · · · · · · · · · · · · ·		
City: Woodridge	_State:_IL_	ZIP Code: 60517	Phone: 630.754.2124		
			iments in accordance with the terms and conditions of the		
Environmental Protection Act (415 ILCS	- 1				
k	1 2	No. 1.	Date: 10-31-06		
Remediation Applicant's Signature:	TUNG / I	100g	Date: _/0 - 3/ - 00		
III. Contact Person:					
					
Contact's Name: Tom Brecheisen	m Company: Pioneer Environmental, Inc. #202				
Street Address: 1000 N. Halsted #	202				
City: Chicago	_State:_IL_	ZIP Code: 60622	Phone: 312.587.1021		
IV. Review & Evaluation Li	censed Pr	ofessional Engine	er ("RELPE"), if applicable:		
RELPE's Name:		Company:			
Street Address:					
City:	State:	ZIP Code:	Phone:		
Registration Number:		Lic	ense Expiration Date:		
				_	

All information submitted is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines. The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your plan(s) or report(s) being rejected. This form has been approved by the Forms Management Center.

IL 532 2547 LPC 566 Feb-2000

V. Project Documents Being Submitted:

Document Title: FSI / RAC Report	Date of Preparation of Plan or Report: 11-1-00				
Prepared by: Pioneer Environmental, Inc. Prepare	ed for MC Holdings, Inc.				
Type of Document Submitted:	☐ Sampling Plan				
Site Investigation Report - Comprehensive	☐ Health and Safety Plan				
☑ Site Investigation Report - Focused	☐ Community Relations Plan				
☐ Remediation Objectives Report-Tier 1 or 2	☐ Risk Assessment				
☐ Remediation Objectives Report-Tier 3	☐ Contaminant Fate & Transport Modeling				
Remedial Action Plan	☐ Environmental Remediation Tax Credit - Budget Plan Review				
☐ Remedial Action Completion Report	Other:				
Document Title:	Date of Preparation of Plan or Report:				
Prepared by: Prepared for:					
Type of Document Submitted:	Sampling Plan				
Site Investigation Report - Comprehensive	☐ Health and Safety Plan				
Site Investigation Report - Focused	☐ Community Relations Plan				
Remediation Objectives Report-Tier 1 or 2	☐ Risk Assessment				
Remediation Objectives Report-Tier 3	☐ Contaminant Fate & Transport Modeling				
Remedial Action Plan	☐ Environmental Remediation Tax Credit - Budget Plan Review				
Remedial Action Completion Report	Other:				
Document Title:	Date of Preparation of Plan or Report:				
Prepared by: Prepared for:					
Type of Document Submitted:	☐ Sampling Plan				
Site Investigation Report - Comprehensive	Health and Safety Plan				
Site Investigation Report - Focused	Community Relations Plan				
Remediation Objectives Report-Tier 1 or 2	Risk Assessment				
Remediation Objectives Report-Tier 3	☐ Contaminant Fate & Transport Modeling				
Remedial Action Plan	☐ Environmental Remediation Tax Credit - Budget Plan Review				
Remedial Action Completion Report	Other:				
VL Professional Engineer's Seal or Stamp:					
I attest that all site investigations or remedial activities that are the subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices, and the information presented is accurate and complete.					
Engineer Name: Mike Ciserella	Professional Engineer's Seal of State 1				
Company: Pioneer Phone: 312.587.1021	- ANICHAEI O				
Registration Number: 062-048884	—— P WIIOTIAEL 37				
	CISEDELLA				
Signature:	License Expiration Date:				
	3 ^ 5				
	TOTO TERES				

Subject Property Legal Description; PIN: 02-12-303-008

Lots 32 and 33 in Ellsworth Park unit number 5, being a subdivision in the southwest 1/4 of Section 12, Township 38 North, Range 10 East of the third principal meridian, according to the plat thereof recorded January 10, 1962 as document number R62-993 in DuPage County, Illinois.

Remediation Site Legal Description

Beginning at the southeast property corner of Lot 32, extending north along eastern property line for 120 feet, then due west 100 feet, then south 120 feet to the southern property line and then east 100 feet to the point of beginning.

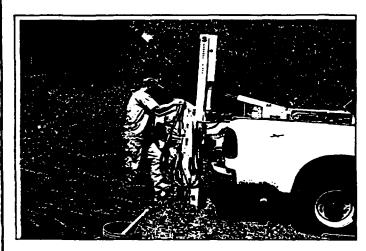
APPENDIX B

Photographic Log

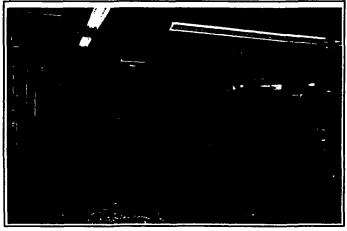


View of floor drain outlet

View of floor drain from interior of former waste storage room



Advancement of boring B-9



View of warehouse interior

MOR 000096



The Morey Corporation 2659 Wisconsin Avenue Downers Grove, IL PHOTOGRAPHIC LOG

Project Number: 00618

October 2000



Advancement of boring B-13



Advancement of boring B-14

MOR 000097



The Morey Corporation 2659 Wisconsin Avenue Downers Grove, IL PHOTOGRAPHIC LOG

Project Number: 00618

October, 2000

APPENDIX C

Pioneer Standard Protocol
Soil Boring Logs
Monitoring Well Completion Reports

PROTOCOL FOR SUBSURFACE SOIL SAMPLING

Subsurface samples are collected by employing various soil boring techniques based on certain site specific conditions. Soil borings are performed using a Hollow or Solid Stem (site specific) auger with split-spoon sampling techniques, a hydraulic percussive split-spoon sampler, a percussive Macro-Core® barrel sampler, and/or a stainless steel hand auger. The soil sampling activities are conducted in accordance with American Society of Testing and Materials (ASTM) standards (ASTM:D 1586). Soil samples are collected with a stainless steel hand auger, a split-spoon sampler, and/or a Macro-Core® sampler at 2-3 foot intervals depending on the specific method used. In the split-spoon sampling procedures, a split-barrel sampler having either a 2-inch or 1-3/16 inch outside diameter, an inside diameter of 1-3/8 or 7/8 inches, and a length of 2.5 or 3 feet is driven into the soil to collect a representative and undisturbed sample. In the Macro-Core® barrel sampling technique, a stainless steel barrel having a 2-inch outside diameter, an inside diameter of 1-1/2 inches, and a length of 2 or 3 feet is fitted with a PVC liner and is driven into the soil to collect a representative and undisturbed sample.

The drilling is directed by a Pioneer Environmental Field Project Geologist/Engineer, who logs geologic materials encountered during drilling, field screens auger cuttings and soil samples, observes the drilling activities, and supervises sample collection. Each sample is examined in the field for odor and visual evidence of hydrocarbon or other organic contamination. The field observations are noted in the soil boring logs that are included in the Appendices.

A representative portion of each sample is placed into an unused, air-tight plastic bag which is sealed and dedicated to that discrete sample. The sample is allowed to achieve a constant temperature and the headspace above each sample is screened for volatile organic compounds (VOCs) using either a Photovac MP-1000 handheld air monitor / photoionization detector (PID) or a Photovac IS 3000 handheld air monitor / flame ionization detector (FID), depending on the nature of the targeted contaminants. The PID/FID are devices that are sensitive to a variety of VOCs. The headspace is screened by inserting the PID/FID probe into the space above the soil and recording the maximum reading of the instrument. The results of the headspace screening are also listed on the soil boring logs.

When soil samples will be laboratory tested for VOCs, one of two field sampling methods are used as required by US EPA's SW-846 Method 5035. 1) A representative portion of the sample collected in the field is placed in an EnCoreTM sampler, or equivalent, immediately after collection, with the appropriate quantity and volume of the containers determined by the scope of work and field conditions. The EnCoreTM samplers, or equivalent, are delivered to the laboratory within 48 hours of sample collection. 2) An appropriate weight of a representative portion of the sample collected in the field is placed in laboratory-provided glassware, immediately after collection, and then the appropriate preservative is added, either sodium bisulfate-for samples with estimated VOC concentrations less than 200 ppb; or methanol-for samples with estimated VOC concentrations greater than 200 ppb.

Any soil samples chosen for analysis are packed in appropriate containers, properly labeled, and shipped in a cooler on ice via a delivery service overnight to an independent laboratory under standard chain-of-custody procedures. Samples are selected based on the scope of work, field observations (i.e. visual/odor observations, elevated PID readings, etc.), other site specific conditions, and the judgment of the Pioneer Field Project Geologist/Engineer.

Drill cuttings and liquids generated are left at the borehole. All boreholes are decommissioned in accordance with applicable Illinois Department of Public Health guidelines. When required, these spoils are contained in 55 gallon Type 17H drums. Decontamination procedures for the drilling equipment consists of steam cleaning the augers after each boring using a biodegradable detergent and high-pressure steam rinse. The split-spoon samplers are decontaminated between each sample interval by washing in a solution of Alconox and water, and triple rinsing with clean heated water.

Any deviations to or modifications of this standard protocol will be described on a site by site basis.

PROTOCOL GROUNDWATER MONITORING WELL INSTALLATION & SAMPLING

Groundwater monitoring wells are typically installed using hollow stem auger borings. When spatial constraints dictate, wells may be installed using manual hand-augering techniques, or other acceptable practices. Soil sampling is conducted during well installation, according to Pioneer's Subsurface Soil Sampling Protocol. The drilling and well installation are directed by Pioneer's Field Project Geologist/Engineer, who logs geologic materials encountered during drilling, field screens auger cuttings and soil samples, observes the drilling activities, and supervises installation of groundwater monitoring wells. All drilling equipment and tools are properly decontaminated (i.e. pressure washing, steam cleaning, etc.) prior to mobilization onto the site, between boreholes, and upon completion of the drilling program.

Wells are constructed of 2 inch I.D. schedule 40 flush-joint PVC riser and screen unless noted otherwise in the report. The well materials are decontaminated prior to installation. When the depth of the well allows, the annular space surrounding the screen is backfilled with silica sand filter pack to a height not less than 1 foot above the top of the well screen, and a minimum of one foot of bentonite pellets or granular bentonite is placed above this backfill, to provide a low permeability seal. The remaining annulus is sealed with a cement/bentonite grout to the ground surface. Well screens are positioned to monitor selected areas of the water column. In high traffic areas, a flush-mount protective casing with a locking well cap is generally installed at the surface and secured with concrete. In low traffic areas, a "stickup" locking protective casing is typically installed.

After installation, wells are developed using either a new disposable high-density polyethylene (HDPE) bailer for each well, or a stainless steel submersible pump, by purging approximately 5-10 well volumes of water from each well, until the well water is visually clear of suspended sediments, or until further yield cannot be achieved. Wells are allowed to stabilize prior to sampling, to ensure the collected sample is representative of groundwater at the location. If a stainless steel pump is used during well development, it is decontaminated between wells using a tri-sodium phosphate (TSP) wash and triple water rinse.

Prior to sample collection, the wells are purged by removing a maximum of 3-5 well volumes of water or until further yield cannot be achieved in order to remove all static water from the wells. Purging is accomplished using either a disposable HDPE bailer which is dedicated to the individual well or a stainless steel submersible pump. Sample collection is accomplished using a new disposable HDPE bailer for each well. Groundwater samples are collected, placed in appropriately sized laboratory provided glassware and labeled, identifying sample number, location and date, and sampling personnel. The proper sample preservatives are added to the sampling jars as required. Standard chain-of-custody procedures are followed regarding shipment and receipt of samples.

Quality Assurance/Quality Control (QA/QC) procedures for field sampling techniques are performed on a site-by-site basis per scope of work considerations and contract obligations.

In accordance with Pioneer's Site Safety Plan, a photoionization detector (PID) is used to monitor ambient air concentrations at the sampling locations. Personal protective equipment is utilized by site personnel during performance of sampling activities, as specified in the Site Safety Plan as necessary.

Any deviations to or modifications of this standard protocol will be described on a site-by-site basis.

1500 Ach 6

nt		תיויוז			Во	ring L	og.		Boring No.:	B-2
ENV	IRONME	VEEK NTAL. INC		Site:	265	9 Wisc	Corporation onsin Street		Date Begin:	8/28/00
					Do'	wners G	rove, Illinois		Date End:	8/28/00
Sample Recovery	FID (ppm)	Sample	Depth Feet	Soil Class	Lithology		Description		Note	es ·
100%	0.8		_	ML		trace	vn CLAYEY SILT wi gravel and sand se, Moist	th		···
100%	0.7		3 6	- CL		some grave	vn SILTY CLAY with e clayey silt and some el and sand se, Moist		No O	
100%	0.8		_ _ 9 .						No Vi	sual
100%	0.3		-	CL		with	vn to gray SILTY CLA some sand and gravel ,, Moist			
			- 12 15 18 -			Bori	ng terminated at 12 fe	et		
							Drill Rig:	SIMCO	Earthprobe 20	0
Hatche		denotes s	ample sub obe Macro		aboratory analys	sis	Driller: Geologist:	Predrag Tom Bre	Vrhovac	<u> </u>
							LUST Incident No:	NA		
Water De	pth Whil	e Drilling	:NA V	Vater Depth	After Drilling:	NA	Project Number: 006	18	Page	1

זמ		חיויון			Во	ring L	og		Boring No.:	B-1
		VEEK NTAL, INC		Site:			Corporation		Date Begin:	8/28/00
ENV	INUMME	NIAL, INC					onsin Street rove, Illinois	_	Date End:	8/28/00
Sample Recovery	FID (ppm)	Sample	Dept Feet	h Soil Class	Lithology		Description		Not	es
100%	2.4		<u> </u>	ML		trace	vn CLAYEY SILT gravel and sand e, Moist	with		
100%	47.8		- 3 - - 6			with	on to gray SILTY C trace gravel and sa to soft, Moist		No C	
100%	7.0		- - - 9	CL					No V	isu a l
100%	2.0		- - - 12							
			-			Bori	ng terminated at 12	feet		
			— 15 -							
			- 18 -							
							D.11.6.	60,666		
Hatched	ion Notes I interval	denotes sa	ımple sı	ibmitted for la	boratory analys	sis	Drill Rig:	SIMCO Predrag	Earthprobe 2	
Samplin	ng method	i: Geopro	be Macı	ro-Core			Geologist:	Tom Bre		
							LUST Incident No			
Water De	pth While	e Drilling:	NA	Water Depth	After Drilling:	NA	Project Number:	00618	Page	1

זת		חחקן			Во	ring L	og	!	Boring No.:	B-3
[]	BONNE.	VEEK NTAL. INC		Site:			Corporation onsin Street		Date Begin:	8/28/00
	INDIME	TAL. INC		 -			rove, Illinois		Date End:	8/28/00
Sample Recovery	FID (ppm)	Sample	Depth Feet	Soil Class	Lithology		Description		Note	ės
100%	0.7		-	CL		some grave	n SILTY CLAY with clayey silt and some el and sand , Loose, Moist			
100%	0.6		— 3 - - -	CL		some grave	n CLAYEY SILT wit silty clay and some cl and sand Loose, Moist	h	No C)dor
100%	0.5	-	6 - - - 9 -						No V	
100%	0.4		-	CL		trace	SILTY CLAY with sand and gravel Moist			
			12 - - -			Borii	ng terminated at 12 fee	et		
		} -	- 15 - - -	- - -						
			— 18 - –	-						
	ion Notes		ample cub	mitted for la	aboratory analys	ie	Drill Rig:	SIMCO	Earthprobe 2	00
		d: Geopro			looratory analys	,,,,	Driller:	Predrag '	 	- <u>-</u> -
							Geologist:	Tom Bre	cheisen	
							LUST Incident No:	NA	T	
rater De	bm wul	e Drilling:	NA V	vater Depth	After Drilling: 1	NA	Project Number: 006	18	Page	1

זמ		ייייו			Boi	ing Log		Boring No.: B-4
ENV	IRONME	VEEK		Site:	265	Morey Corporation Wisconsin Street rners Grove, Illinoi		Date Begin: 8/28/00 Date End: 8/28/00
Sample Recovery	FID (ppm)	Sample	Depth Feet	Soil Class	Lithology	Descriptio	n	Notes
100%	0.7		-	CL		Brown SILTY CLA some clayey silt and gravel and sand Firm, Loose, Moist	d some	
100%	0.6		- 3 - - 6	- CL		Brown CLAYEY S some silty clay and gravel and sand Stiff, Loose, Moist		No Odor
100%	0.5		- - - 9	-				No Visual
100%	0.8		-	CL		Gray SILTY CLAY trace sand and grave Stiff, Moist		
			— 12 — 15 — 18	-		Boring terminated a	at 12 feet	
Hatched		denotes s	ample sul		boratory analysi	Drill Rig: Driller: Geologist: LUST Inciden	Predrag Tom Bro	Earthprobe 200 Vrhovac echeisen
Water De	pth While	Drilling	:NA \	Water Depth	After Drilling: N	A Project Numb	er: 00618	Page 1

זמ	<u></u>	מממו)		Во	ring L	og.		Boring No.: B-5
ENV	IRONME	VEEK NTAL, INC	<i>.</i>	Site:	265	9 Wisco	Corporation onsin Street trove, Illinois	- -	Date Begin: 8/28/00 Date End: 8/28/00
Sample Recovery	FID (ppm)	Sample	Dep Fee	th Soil Class	Lithology		Description		Notes
100%	3.0			- CL			vn SILTY CLAY , Moist		
100%	0.8		- - - 6	-					No Odor
100%	0.9		- - - 9	CL		trace Firm	SILTY CLAY with gravel and sand, Moist		No Visual
100%	1.4		-	CL		trace	SILTY CLAY with sand and gravel Moist		
			— 12 — 15 — 18			Bori	ng terminated at 12 fee	et	
Hatched	ion Notes i interval ng methoo	denotes s	ample s	ubmitted for la	aboratory analy	sis	Drill Rig: Driller: Geologist: LUST Incident No:	SIMCO Predrag Tom Bre	
Water De	pth While	e Drilling	NA	Water Depth	After Drilling:	NA	Project Number: 006	518	Page 1

nt		תיויון	,		Boı	ing Log	Boring No.: B-6
ENVI	RONME	VEEL NO		Site:		Morey Corporation Wisconsin Street	Date Begin: 8/28/00
		1		<u> </u>	Dov	ners Grove, Illinois	Date End: 8/28/00
Sample Recovery	FID (ppm)	Sample	Dept Fee	th Soil Class	Lithology	Description	Notes
100%	16.6		_	CL		Brown SILTY CLAY with trace gravel and sand Firm, Moist	
100%	23.9		- 3 -	CL		Brown to gray SILTY CLAY with trace gravel and sand Firm to stiff, Moist	No Odor
100%	3.9		- 6 -	CL		Gray SILTY CLAY Firm, Moist	No Visual
100%	2.0		- 9 -	CL		Gray SILTY CLAY Soft, Moist	
		Y X X X	- 12 15	-		Boring terminated at 12 feet	
			18				
Hatched					aboratory analysi	Driller: Prec	ICO Earthprobe 200 drag Vrhovac
						Geologist: Ton LUST Incident No: NA	n Brecheisen
Water De	oth Whil	e Drilling		Water Depth	After Drilling: N		Page 1

זמ		חיויון			Во	ring L	og		Boring No.: 1	3-7
11	BONNE!	VEEK NTAL, INC		Site:			Corporation onsin Street		Date Begin: 8	3/28/00
	INOKME!	17					rove, Illinois		Date End: 8	3/28/00
Sample Recovery	FID (ppm)	Sample	Depth Feet	Soil Class	Lithology		Description		Notes	3
100%	0.7		-	ML		some	vn CLAYEY SILT wit e gravel and sand e, Moist	h		
100%	0.2		- 3 · - -	CL		trace	vn SILTY CLAY with gravel and sand , Moist		No Od	lor.
100%	0.1		- 6 · - - 9 ·	CL			SILTY CLAY , Moist		No Vis	
100%	0.1		- - - 12 ·	-						
			- - - 15	-		Bori	ng terminated at 12 fee	et		
			-							
			18 · -	-						
Complet	ion Notes	: :		·			Drill Rig:	SIMCO	Earthprobe 20	0
Sampli	ng method	denotes said: Geopro	ampie sub obe Macro	omitted for la oCore	boratory analy	SIS	Driller:	Predrag \	Vrhovac	
							Geologist:	Tom Bre	cheisen	
							LUST Incident No:	NA		
/ater De	pth While	e Drilling	NA V	Vater Depth	After Drilling:	NA	Project Number: 006	18	Page	1

nr		חחחו)			Во	oring L	.og	-	Boring No.: 1	B-8
1 1 1	IRONMEN	IEEK ITAL, INC	().	S	Site:	26:	59 Wisc	Corporation onsin Street brove, Illinois		Date Begin: 1	3/28/00 3/28/00
Sample Recovery	FID (ppm)	Sample	Dep Fee	th t	Soil Class	Lithology		Description		Note	S
100%	0.0		-		ML		som	on CLAYEY SILT wi e gravel and sand se, Moist	th		
100%	0.2		- 3		ML		some	on CLAYEY SILT wi e gravel and sand , Moist	th	No Od	or
100%	0.0		- 6 0		CL		som Firm	on SILTY CLAY with e gravel and sand to stiff, Moist		No Vis	
100%	0.0		— 9 —		CL			SILTY CLAY , Moist			
			- 12 - 15 - 18				Bori	ng terminated at 12 fe	et		
Hatche	tion Notes d interval ng method	denotes s				aboratory analys	sis	Drill Rig: Driller: Geologist: LUST Incident No:	SIMCO I Predrag Tom Bre		
Water De	pth While	Drilling	:NA	Water	Depth	After Drilling:	NA	Project Number: 006		Page	1

זמ		מחחו		-		Во	ring L	og		Boring No.: B-9	
FNV	IRONMEN	VEEK			Site:			Corporation onsin Street		Date Begin: 8/28	00
		,						rove, Illinois		Date End: 8/28	00
Sample Recovery	FID (ppm)	Sample	Dep Fee	th t	Soil Class	Lithology		Description		Notes	
100%	0.0		- - - 3	1			some grave	on CLAYEY SILT wit silty clay and some el and sand e, Stiff, Moist	h		
100%	0.0		- - - 6		ML					No Odor No Visual	
100%	0.0		- - - 9	-						140 Visual	
100%	0.0		- -		CL		some	SILTY CLAY with gravel and sand Moist			
			12 	1			Bori	ng terminated at 12 fee	et		
			15 - -	1							
			18 -	-							
	tion Notes			h	wad & 1-	boratory analy	aio.	Drill Rig:	SIMCO	Earthprobe 200	
Sampli	ng method	l: Geopro	be Mac	roCo	re ior ia	looratory analy	515	Driller:	Predrag		
								Geologist:	Tom Bre	cheisen 	
							·	LUST Incident No:	NA ————	Page	
Water Depth While Drilling:NA Water Depth After Drilling: NA Project Number: 00618											1

זמ		חחחו			Bor	ing L	og		Boring No.: B-10
ENV	IRONME	VEEK NTAL, INC		Site:	2659	Wisco	Corporation onsin Street rove, Illinois		Date Begin: 8/29/00 Date End: 8/29/00
Sample Recovery	FID (ppm)	Sample	Depth Feet	Soil Class	Lithology	11013 01	Description		Notes
100%	3.9			- CL		some grave	n SILTY CLAY with clayey silt and some I and sand c, Stiff, Moist	1	
100%	12.3		_ 3	- CL		Brow some	n SILTY CLAY with gravel and sand Moist	-	
100%	27.9		– – 6			Dode	brown SILTY CLAY	,	No Odor
75%	6.7					mottle	ed gray to stiff, Moist		No Visual
100%	5.0	××××	9	- CL					
100%	8.4		12	_		Borin	g terminated at 12 fe	et .	
			- - - 15			_ 			
			-						
			— 18 —						
Hatched				bmitted for la	boratory analysis	•	Drill Rig: Driller: Geologist: LUST Incident No:	NA Predrag ' Tom Bre	
Water De	pth While	e Drilling	·NA V	Water Depth	After Drilling: N		Project Number: 006		Page 1

זת		זיוון)	[Bo	ring L	og		Boring No.: 1	3-11
ENV	IRONME	VEEL	(Site:			Corporation onsin Street		Date Begin: 8	3/29/00
EIVV	INONME:	T	,.	<u> </u> 				rove, Illinois		Date End: 8	3/29/00
Sample Recovery	FID (ppm)	Sample	Dep Fee	oth et	Soil Class	Lithology		Description		Notes	5
75%	0.8		_	-	CL		some	on SILTY CLAY with gravel and sand, Moist			
100%	0.9		- 3 -		CL		some	on SILTY CLAY with gravel and sand Moist		No Od No Vis	lor ual
100%	1.2		- 6					ON THE CLAY			
100%	0.7		<u>-</u>	+	CL		trace	on SILTY CLAYwith gravel and sand to stiff, Moist			
				1			Borir	ng terminated at 8 feet			
			<u> </u>								
			12								
			Γ.,								
			- 15	,]							
			 -	7					}		
			-	1							
			18	'							
			-	1							
Complet	ion Notes	 s:	<u> </u>	1_		<u> </u>		Drill Rig:	NA NA		
Hatched		denotes s	sample s Auger	submitt	ted for la	aboratory analys	is	Driller:	Predrag '	Vrhovac	·
· # - *-			٠. ي					Geologist:	Tom Bre	cheisen	
								LUST Incident No:	NA		
Water De	pth Whil	e Drilling	;:NA	Wate	r Depth	After Drilling: 1	 NA	Project Number: 006	18	Page	1

זמ		יויון	·				В	oring L	og		Boring No.:	B-12
	IRONMEN	IEEK IEEK			Site:				Corporation		Date Begin:	8′29/00
EMA	INONMER	TIAL, INC	,. 	<u> </u>					onsin Street Grove, Illinois		Date End:	8/29/00
Sample Recovery	FID (ppm)	Sample	Dep Fee	th t	Soil Class	Litho	ology		Description		Not	es
33%	0.7		<u> </u>	1	ML			som silty	wn SILTY SAND with e gravel, coarse sand a clay a, Moist			
50%	1.3		- - 3		CL			mott	c brown SILTY CLAY led gray I, Moist	<i>(</i>	No O)dor
50%	2.0		_ _ 6		CL				, SILTY CLAY 1, Moist		No V	isual
50%	2.2		_	+				Bori	ng terminated at 8 fee	t		
		į	— 9 –									
			12	-								
			– – 15	-								
			- -	1								
			18 	1 1				i				
	-				<u> </u>				Dail Bian	NA	·	
Hatche		denotes s		ubm	itted for la	borator	y analy	sis	Drill Rig: Driller:	Predrag '	Vrhovac	
Samplii	ng method	i: Hand /	Auger						Geologist:	Tom Bre		
									LUST Incident No:	NA		
Water De	epth While	e Drilling	:~2'	Wa	ter Depth	After D	rilling:	NA	Project Number: 006	518	Page	1

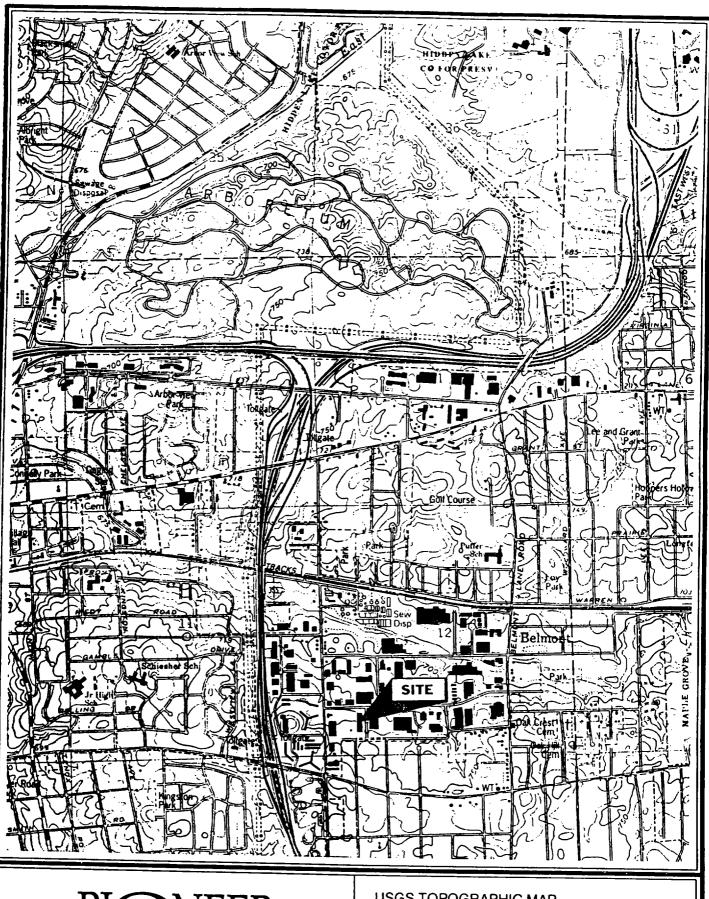
זמ		מיחו			Во	ring L	og	1	Boring No.:	B-13			
ENV	IRONMEN	IEEK ITAL, INC		Site:			Corporation onsin Street	1	Date Begin:	8/29/00			
	 			 _	Do	wners G	rove, Illinois		Date End:	3/29/00			
Sample Recovery	FID (ppm)	Sample	Depth Feet	Soil Class	Lithology		Description		Notes				
100%	0.0			ML		some silty	on CLAYEY SILT wit gravel and sand and clay e, Stiff, Moist	h					
100%	0.3		_ 3 -				m SILTY CLAY to stiff, Moist		No Oo	lor			
100%	0.9	XXXX	- 6 -	CL					No Vis	ual			
50%	0.5		- ·	-		Boris	ng terminated at 8 feet						
			- 9 -	4		Boil	ig terminated at o rect	Ì					
			_	1				Ì					
i													
			– 12 –										
			_			i		}					
		!		_									
			_	7				İ					
			— 15 -	7									
			_	7									
			_	1									
			— 18 -	-									
			-	-									
Complet	ion Notes				L	1	Drill Rig:	NA NA					
Hatched	i interval	denotes s		mitted for la	iboratory analy	sis	Driller:	Predrag V	Vrhovac				
Sampling method: Hand Auger					Geologist: Tom Brecheisen								
							LUST Incident No: NA						
Water De	epth While	Drilling	NA W	ater Depth	After Drilling:	NA	Project Number: 006	518	Page	1			

זמ		חיוין				Boring No.: B-14						
[7] ENV	BONNE	VEEK ntal, inc.		Site:			Corporation onsin Street		Date Begin: 8/29/00			
ENV	INONWE	TIAL, INC.		T			rove, Illinois					
Sample Secovery	FID (ppm)	Sample	Depth Feet	Soil Class	Lithology		Description		Notes			
50%	0.2		 	CL		trace	n SILTY CLAY with gravel and sand , Moist					
100%	0.0		- 						No Od	0 F		
100%	0.8		- 6 	CL			SILTY CLAY , Moist		No Visi			
ļ			- 9 -			Bori	ng terminated at 9 feet	1				
	i											
		}	- -									
			– 12 <i>–</i>									
1	!											
	i	-										
		-	- 15 -									
		}										
			— 18 —	İ								
,												
					<u> </u>		 					
	tion Note: d interval		ımple subm	itted for la	aboratory analysi	is	Drill Rig:		Earthprobe 200			
			be Macro-C		y		Driller:	Predrag				
							Geologist:	Tom Bre	cheisen			
							LUST Incident No:	NA				
Vater D	epth Whil	e Drilling:	NA Wa	ter Depth	After Drilling: N	NA	Project Number: 006	18	Page	1		

זמ		מחקן				Boring No.: B-15					
ENV	IRONNE	VEEK NTAL, INC		Site:			Corporation onsin Street		Date Begin: 8/29/00		
		T T		1			rove, Illinois		Date End:	8/29/00	
Sample ecovery	FID (ppm)	Sample	Depth Feet	Soil Class	Lithology		Description		Not	es	
100%	0.5			MIL		some	n CLAYEY SILT v silty clay Loose, Moist	with			
100%	0.7	-	- 3 - 	CL		some	n SILTY CLAY wi clayey silt e, Firm, Moist	th	No. C	.	
100% 0.0			CL		gray	n SILTY CLAY mowith some clayey si Loose, Moist		No Odor No Visual			
			- 9 - 			Bori	ng terminated at 9 fo	eet			
			- 18								
Hatche	tion Note: d interval	denotes sa	ample subn	nitted for la	aboratory analy:	sis	Drill Rig:		Earthprobe 2	00	
Sampli	ng metho	d: Geopro	be MacroC	Core			Driller: Geologist:	Predrag ' Tom Bre			
							LUST Incident No				
Vater De	oth While	e Drilling:	NA W	ater Denth	After Drilling:	 NA	Project Number: 0	00618	Page		

APPENDIX D

USGS / ISGS Maps

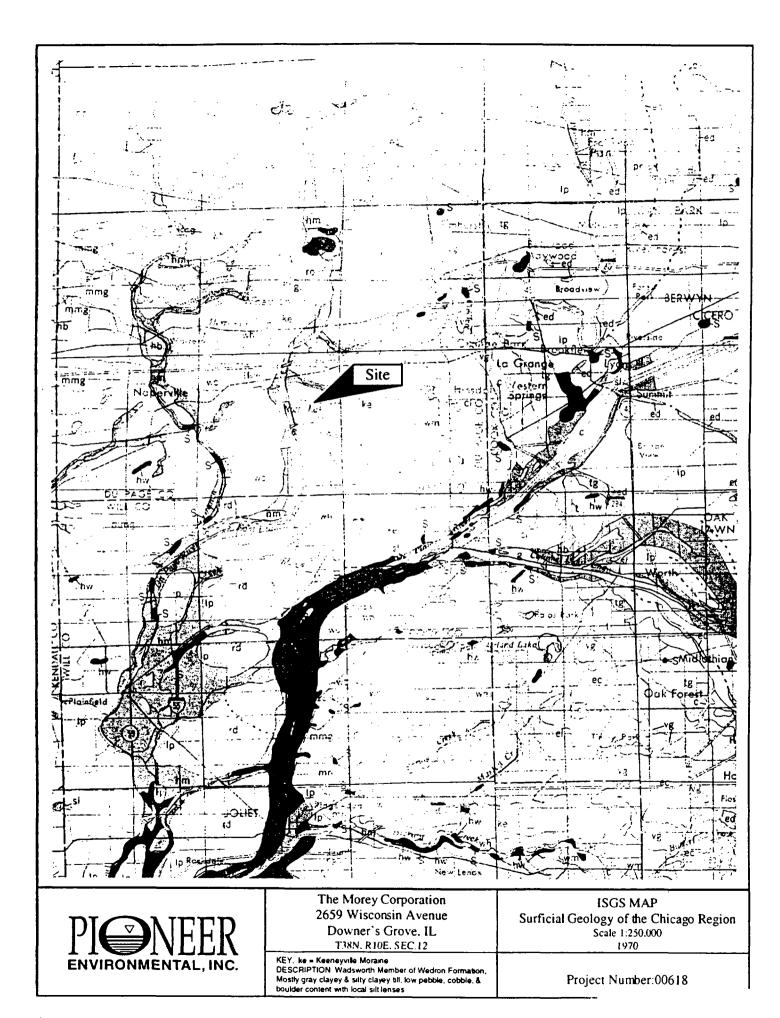


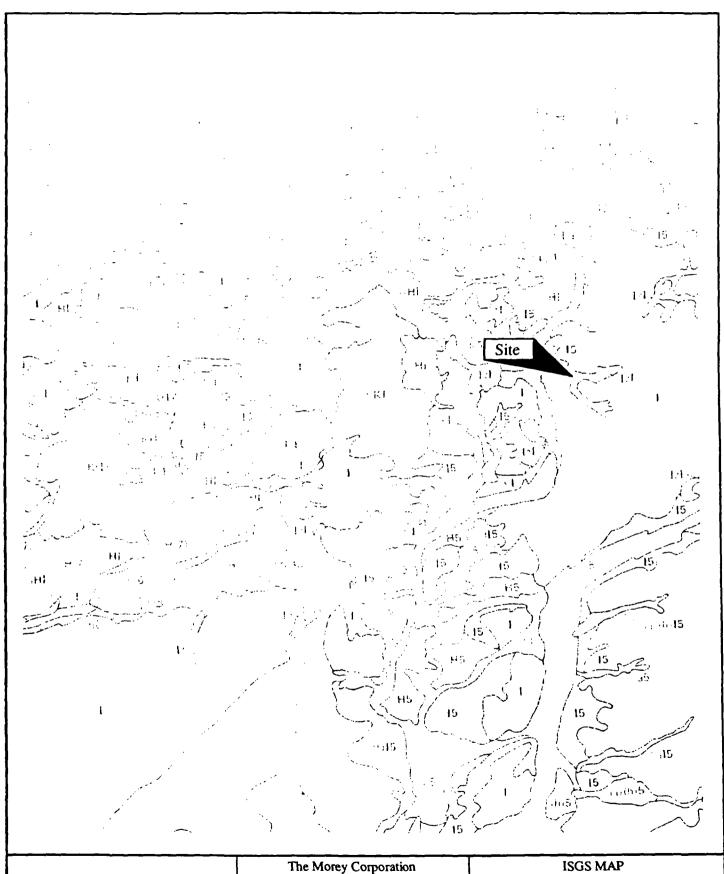


USGS TOPOGRAPHIC MAP WHEATON, IL QUADRANGLE SUBJECT SITE: SECTION 12, T 38N, R 10E

SCALE: 1:24,000

DATE: 1993





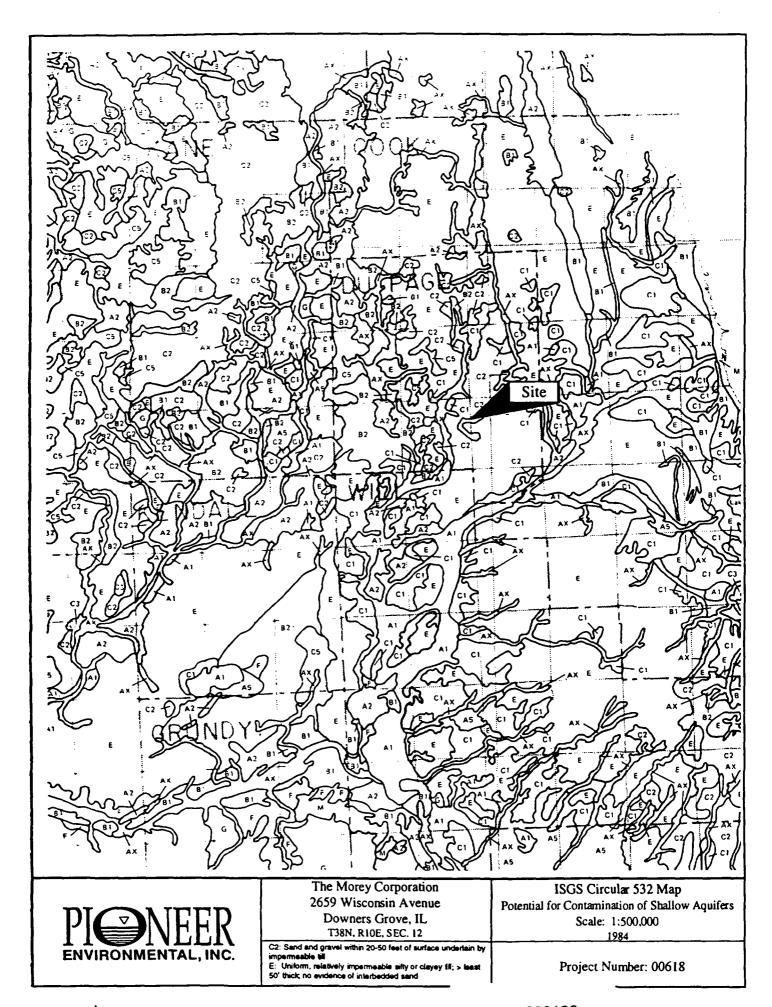


The Morey Corporation 2659Wisconsin Avenue Downers Grove, Illinois T38N, R10E, Sec 12

DESCRIPTION: Wedron Formation: sity and clayey diamictons >6m (19.7) in thisdness with sand and gravel deposits between 6 and 15 feet

ISGS MAP
Stack-Unit Map of Northern Illinois
Scale: 1:250,000
1987

Project Number: 00618



APPENDIX E

Laboratory Analytical Results

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #

00618

Project Name MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

Lab Code		Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
General Solids Percent 82.6 % 1 8/30/00 5021 SAD 1 Organic VOC'S Acetone < 10	1:)	
Organic Solids Percent 82.6 % 1 8/30/00 5021 SAD 1 CYOC's Acctone < 10 ug/kg 10 34 1 9/2/00 8260B CJR 1 Benzene < 10 ug/kg 6.8 23 1 9/2/00 8260B CJR 1 Bromoform < 10 ug/kg 5.8 19 1 9/2/00 8260B CJR 1 Bromoform < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1 Bromoform < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1 Carbon Disulfide < 10 ug/kg 5.7 19 1 9/2/00 8260B CJR 1 Chlorobenzene < 10 ug/kg 5.6 19 1 9/2/00 8260B CJR 1 Chlorobenzene < 10 ug/kg <t< td=""><td>Inorganic</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Inorganic										
Organic VOC's Acetone < 10 ug/kg 10 3.4 1 97/200 8260B CIR 1 Benzene < 10	General										
Acetone	Solids 1	Percent	82.6	%			ı	8/30/00	5021	SAD	i
Acetone	Organic										
Benzene	-										
Bromodichloromethane	Aceton	e	< 10	ug/kg	10	34	1	9/2/00	8260B	CJR	ı
Bromoform	Benzen	ne	< 10	ug/kg	6.8	23	ŀ	9/2/00	8260B	CJR	ı
Bromomethane	Bromo	dichloromethane	< 10	ug/kg	5.8	19	1	9/2/00	8260B	CJR	1
Carbon Disulfide < 10 ug/kg 5.7 19 1 9/2/00 8260B CIR 1 Carbon Tetrachloride < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1 Chlorobenzene < 10 ug/kg 5.6 19 1 9/2/00 8260B CJR 1 Chloroform < 10 ug/kg 10 34 1 9/2/00 8260B CJR 1 Chloromethane < 10 ug/kg 10 35 1 9/2/00 8260B CJR 1 Dibromochloromethane < 10 ug/kg 91 30 1 9/2/00 8260B CJR 1 1,1-Dichloroethane < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 1,1-Dichloroethane < 10 ug/kg 8.3 2.8 1 9/2/00 8260B CJR 1 1,1-Dichloroethane < 10 ug/kg <td>Bromo</td> <td>form</td> <td>< 10</td> <td>ug/kg</td> <td>10</td> <td>34</td> <td>i</td> <td>9/2/00</td> <td>8260B</td> <td>CJR</td> <td>!</td>	Bromo	form	< 10	ug/kg	10	34	i	9/2/00	8260B	CJR	!
Carbon Tetrachloride	Bromo	methane	< 10	ug/kg	10	35	1	9/2/00	8260B	CJR	l
Chlorobenzene < 10 ug/kg 5.6 19 1 9/2/00 8260B CJR 1 Chloroethane < 10 ug/kg 10 34 1 9/2/00 8260B CJR 1 Chloroform < 10 ug/kg 4.1 14 1 9/2/00 8260B CJR 1 Chloromethane < 10 ug/kg 4.1 14 1 9/2/00 8260B CJR 1 Chloromethane < 10 ug/kg 10 35 1 9/2/00 8260B CJR 1 Dibromochloromethane < 10 ug/kg 9.1 30 1 9/2/00 8260B CJR 1 1,2-Dichloroethane < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 1,1-Dichloroethane < 10 ug/kg 8.3 28 1 9/2/00 8260B CJR 1 1,1-Dichloroethane < 10 ug/kg 8.3 28 1 9/2/00 8260B CJR 1 1,1-Dichloroethane < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 1,1-Dichloroethene 2600 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,2-Dichloroethene 355 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 1,2-Dichloropropane < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 1,2-Dichloropropane < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,3-Dichloropropene < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,3-Dichloropropene < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,3-Dichloropropene < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 Ethylbenzene < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 Ethylbenzene < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Ethylbenzene < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Methyl ethyl ketone < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Methyl isobutyl ketone < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Methylenechloride < 10 ug/kg 8.6 29 1 9/2/00 8260B CJR 1 Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 Tetrachloroethene < 110000 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 Tetrachloroethene 110000 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 Tetrachloroethene 110000 ug/kg 3.3 1100 50 9/5/00 8260B CJR 1 Tetrachloroethene 110000 ug/kg 3.0 1100 50 9/5/00 8260B CJR 1 Toluene 11"J" ug/kg 7 23 1 9/2/00 8260B CJR 1 L1,1-Trichloroethane < 10 ug/kg 3.0 1100 50 9/5/00 8260B CJR 1	Carbon	Disulfide	< 10	սք/kg	5.7	19	1	9/2/00	8260B	CJR	1
Chloroethane	Carbon	Tetrachloride	< 10	ug/kg	10	33	1	9/2/00	8260B	CJR	1 .
Chloroform < 10 ug/kg 4.1 14 1 9/2/00 8260B CJR 1 Chloromethane < 10 ug/kg 10 35 1 9/2/00 8260B CJR 1 Dibromochloromethane < 10 ug/kg 9.1 30 1 9/2/00 8260B CJR 1 1,2-Dichloroethane < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 1,1-Dichloroethane < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 1,1-Dichloroethene < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 trans-1,2-Dichloroethene 2600 ug/kg 9.3 31 1 9/2/00 8260B CJR 1 trans-1,2-Dichloroethene 35 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 1,2-Dichloroethene < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 1,2-Dichloroethene 35 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 1,2-Dichloropropane < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,3-Dichloropropene < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,3-Dichloropropene < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,3-Dichloropropene < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 Ethylbenzene < 10 ug/kg 4.4 15 1 9/2/00 8260B CJR 1 Ethylbenzene < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Methyl ethyl ketone < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Methyl isobutyl ketone < 10 ug/kg 8.6 29 1 9/2/00 8260B CJR 1 Methyl isobutyl ketone < 10 ug/kg 9.3 1 1 9/2/00 8260B CJR 1 Methylene chloride < 10 ug/kg 9.3 1 1 9/2/00 8260B CJR 1 Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 Toluene 110000 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 Toluene 110000 ug/kg 3.0 11 9/2/00 8260B CJR 1 Toluene 110000 ug/kg 3.0 11 9/2/00 8260B CJR 1 Toluene 110000 ug/kg 3.0 11 9/2/00 8260B CJR 1	Chloro	benzene	< 10	ug/kg	\$.6	19	ı	9/2/00	8260B	CJR	l
Chloromethane < 10	Chloro	ethane	< 10	ug/kg	10	34	i	9/2/00	8260B	CJR	1
Dibromochloromethane	Chloro	fo rm	< 10	ug/kg	4.1	14	1	9/2/00	8260B	CJR	ı
1,2-Dichloroethane < 10	Chloro	methane	< 10	ug/kg	10	35	1	9/2/00	8260B	CJR	1
1,1-Dichloroethane < 10 ug/kg 8 3 28 1 9/2/00 8260B CJR 1 1,1-Dichloroethene < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 cis-1,2-Dichloroethene 2600 ug/kg 9.3 31 1 9/2/00 8260B CJR 1 trans-1,2-Dichloroptopene < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 1,2-Dichloropropane < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,3-Dichloropropene < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 cis-1,3-Dichloropropene < 10 ug/kg 7.6 25 1 9/2/00 8260B CJR 1 Ethylbenzene < 10 ug/kg 7.6 25 1 9/2/00 8260B CJR 1 Ethylbenzene < 10 ug/kg 8.2 27 1 9/2/00 8260B	Dibron	nochloromethane	< 10	ug/kg	9.1	30	ı	9/2/00	8260B	CJR	ì
1,1-Dichloroethene < 10	1,2-Dic	chloroethane	< 10	ug/kg	3.8	13	1	9/2/00	8260B	CJR	1
cis-1,2-Dichloroethene 2600 ug/kg 9.3 31 1 9/2/00 8260B CJR 1 trans-1,2-Dichloroethene 35 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 1,2-Dichloropropane < 10 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 trans-1,3-Dichloropropene < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 cis-1,3-Dichloropropene < 10 ug/kg 7.6 25 1 9/2/00 8260B CJR 1 Ethylbenzene < 10 ug/kg 7.6 25 1 9/2/00 8260B CJR 1 2-Hexanone < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Methyl ethyl ketone < 10 ug/kg 8.6 29 1 9/2/00 8260B CJR 1 Methyl isobutyl ketone <th< td=""><td>1,1-Dia</td><td>chloroethane</td><td>< 10</td><td>ug/kg</td><td>8.3</td><td>28</td><td>1</td><td>9/2/00</td><td>8260B</td><td>CJR</td><td>1</td></th<>	1,1-Dia	chloroethane	< 10	ug/kg	8.3	28	1	9/2/00	8260B	CJR	1
trans-1,2-Dichloroethene 35 ug/kg 8.8 29 1 9/2/00 8260B CJR 1 1,2-Dichloropropane < 10	1,1-Dic	chloroethene	< 10	ug/kg	8.7	29	1	9/2/00	8260B	CJR	1
1,2-Dichloropropane < 10	cis-1,2	-Dichloroethene	2600	ug/kg	9.3	31	ţ	9/2/00	8260B	CJR	ı
trans-1,3-Dichloropropene < 10 ug/kg 8.7 29 1 9/2/00 8260B CJR 1 cis-1,3-Dichloropropene < 10	trans-l	,2-Dichloroethene	35	ug/kg	8.8	29	1	9/2/00	8260B	CJR	1
cis-1,3-Dichloropropene < 10 ug/kg 7.6 25 1 9/2/00 8260B CJR 1 Ethylbenzene < 10	1,2-Die	chloropropane	< 10	ug/kg	8.8	29	i	9/2/00	8260B	CJR	1
Ethylbenzene < 10 ug/kg 4.4 15 1 9/2/00 8260B CJR 1 2-Hexanone < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Methyl ethyl ketone < 10 ug/kg 10 35 1 9/2/00 8260B CJR 1 Methyl isobutyl ketone < 10 ug/kg 8.6 29 1 9/2/00 8260B CJR 1 Methylene chloride < 10 ug/kg 9 30 1 9/2/00 8260B CJR 1 Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 37 1,1,2,2-Tetrachloroethane < 10 ug/kg 5.2 17 1 9/2/00 8260B CJR 1 Tetrachloroethene 110000 ug/kg 330 1100 50 9/5/00 8260B CJR 1 Toluene 11 "J" ug/kg 7 23 1 9/2/00 8260B CJR 1 1,1,1-Trichloroethane < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1 1,1,1-Trichloroethane < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1	trans-1	,3-Dichloropropene	< 10	ug/kg	8.7	29	1	9/2/00	8260B	CJR	1
2-Hexanone < 10 ug/kg 8.2 27 1 9/2/00 8260B CJR 1 Methyl ethyl ketone < 10 ug/kg 10 35 1 9/2/00 8260B CJR 1 Methyl isobutyl ketone < 10 ug/kg 8.6 29 1 9/2/00 8260B CJR 1 Methylene chloride < 10 ug/kg 9 30 1 9/2/00 8260B CJR 1 Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 1 Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 37 1,1,2,2-Tetrachloroethane < 10 ug/kg 5.2 17 1 9/2/00 8260B CJR 1 Tetrachloroethene 110000 ug/kg 330 1100 50 9/5/00 8260B CJR 1 Toluene 11 "J" ug/kg 7 23 1 9/2/00 8260B CJR 1 1,1,1-Trichloroethane < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1	cis-1,3	-Dichloropropene	< 10	ug/kg	7.6	. 25	1	9/2/00	8260B	CJR	1
Methyl ethyl ketone < 10 ug/kg 10 35 l 9/2/00 8260B CJR 1 Methyl isobutyl ketone < 10	Ethylb	enzene	< 10	ug/kg	4.4	15	1	9/2/00	8260B	CJR	l
Methyl isobutyl ketone < 10 ug/kg 8.6 29 1 9/2/00 8260B CJR I Methylene chloride < 10 ug/kg 9 30 1 9/2/00 8260B CJR 1 Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 3 7 1,1,2,2-Tetrachloroethane < 10 ug/kg 5.2 17 1 9/2/00 8260B CJR 1 Tetrachloroethene 110000 ug/kg 330 1100 50 9/5/00 8260B CJR 1 Toluene 11 "J" ug/kg 7 23 1 9/2/00 8260B CJR 1 1,1,1-Trichloroethane < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1	2-Hexa	none	< 10	ug/kg	8.2	27	}	9/2/00	8260B	CJR	1
Methylene chloride < 10 ug/kg 9 30 1 9/2/00 8260B CJR 1 Styrene < 10	Methy	l ethyl ketone	< 10	ug/kg	10	35	ł	9/2/00	8260B	CJR	1
Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 3.7 1,1,2,2-Tetrachloroethane < 10	Methy	l isobutyl ketone	< 10	ug/kg	8.6	29	1	9/2/00	8260B	CJR	ı
Styrene < 10 ug/kg 3.8 13 1 9/2/00 8260B CJR 3.7 1,1,2,2-Tetrachloroethane < 10	Methy	lene chloride	< 10	ug/kg	9	30	ı	9/2/00	8260B	CJR	1
Tetrachloroethene 110000 ug/kg 330 1100 50 9/5/00 8260B CJR 1 Toluene 11 "J" ug/kg 7 23 1 9/2/00 8260B CJR 1 1,1,1-Trichloroethane < 10	Styren	e	< 10		3.8	13	1	9/2/00	8260B	CJR	3 7
Toluene 11 "J" ug/kg 7 23 1 9/2/00 8260B CJR 1 1.1.1-Trichloroethane < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1	1,1,2,2	-Tetrachioroethane	< 10		5.2	17	ŧ	9/2/00	8260B	CJR	1
Toluene 11 "J" ug/kg 7 23 1 9/2/00 8260B CJR 1 1.1.1-Trichloroethane < 10 ug/kg 10 33 1 9/2/00 8260B CJR 1	Tetraci	hloroethene	110000	ug/kg	330	1100	50	9/5/00	8260B	CJR	1
	Toluen	ne	11 "J"	• •	7	23	,			CJR	1
1,1,2-Trichloroethane < 10 ug/kg 9.3 31 1 9/2/00 8260B CJR 1	1,1,1-7	Trichloroethane	< 10	ug/kg	10	33	1	9/2/00	8260B	CJR	1
	1,1,2-7	Inchloroethane	< 10	ug/kg	9.3	31	i	9/2/00	8260B	CJR	1

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #

00618

Project Name

MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

- - - -

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5030692A						Sample Type	Soil		
Sample ID	B-1 (3'-6')						Sample Date	8/28/00	ı	
Trichlo	roethene	8000	ug/kg	7.7	26	l	9/2/00	8260B	CJR	1
Vinyl C	Chloride	16 "J"	ug/kg	10	34	1	9/2/00	8260B	CJR	1
m&p-X	Cylene	< 20	ug/kg	9.3	31	1	9/2/00	8260B	CJR	I
o-Xyler	ne	< 10	ug/kg	. 7	23	l	9/2/00	8260B	CJR	1
Lab Code	5030692B						Sample Type	Soil		
Sample ID	B-1 (9'-12')						Sample Date	8/28/00) 	
Inorganic							_			
General										
Solids I	Percent	87.9	%			1	8/30/00	5021	SAD	1
Organic										
VOC's										
Aceton	c	< 10	ug/kg	10	34	ı	9/5/00	8260B	CJR	2
Benzene		< 10	ug∕kg	6.8	23	ì	9/5/00	8260B	CJR	1
Bromo	dichloromethane	< 10	ug/kg	5.8	19	1	9/5/00	8260B	CJR	1
Bromoi	form	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Bromo	methane	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	ı
Carbon	Disulfide	< 10	ug/kg	5.7	19	i	9/5/00	8260B	CJR	347
Carbon	Tetrachloride	< 10	ug/kg	10	33	i	9/5/00	8260B	CJR	1
Chlorol	benzene	< 10	ug/kg	5.6	19	1	9/5/00	8260B	CJR	1
Chloro	ethane	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Chlore	form	< 10	ug/kg	4.1	14	1	9/5/00	8260B	CJR	l
Chloro	methane	< 10	ug/kg	10	35	ι	9/5/00	8260B	CJR	37
Dibron	nochloromethane	< 10	ug/kg	9.1	30	1	9/5/00	8260B	CJR	l
1,2-Dic	hloroethane	< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	1
1,1-Dic	hloroethane	< 10	ug/kg	8.3	28	1	9/5/00	8260B	CJR	1
1,1-Dic	hloroethene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	I
cis-1,2-	-Dichloroethene	1000	ug/kg	9.3	31	ł	9/5/00	8260B	CJR	1
trans-1	,2-Dichloroethene	22 " J"	ug/kg	8.8	29	1	9/5/00	8260B	CJR	i
1,2-Dio	hloropropane	< 10	ug/kg	8.8	29	ı	9/5/00	8260B	CJR	l
trans-1,	,3-Dichloropropene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	ı
	-Dichloropropene	< 10	ug/kg	7.6	25		9/5/00	8260B	CJR	1
Ethylbe	• •	< 10	ug/kg	4.4			9/5/00	8260B	CJR	1
2-Hexa	mone	< 10	ug/kg	8.2		_		8260B	CJR	1
Methyl	ethyl ketone	< 10	ug/kg	10				8260B	CJR	1
•	isobutyl ketone	< 10	ug/kg	8.6				8260B	CJR	1

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

TOM BRECHEISEN
PIONEER ENVIRONMENTAL
1000 NORTH HALSTED
CHICAGO IL 60622

Project #
Project Name

00618

Invoice #

MOREY CORP / 2659 WISCON

E30692

Report Date 21-Sep-00

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5030692B Sample ID B-1 (9'-12'))					Sample Type Sample Date)	
Methylene chloride	< 10	ug/kg	9	30		9/5/00	8260B	CJR	1
Styrene	< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	1
1,1,2,2-Tetrachloroethan	e < 10	ug/kg	5.2	17	l	9/5/00	8260B	CJR	l
Tetrachloroethene	< 10	ug/kg	6.6	22	ı	9/5/00	8260B	CJR	1
Toluene	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	1
1,1,1-Trichloroethane	< 10	ug/kg	10	33	i	9/5/00	8260B	CJR	1
1,1,2-Trichloroethane	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	ì
Trichloroethene	< 10	ug/kg	7.7	26	1	9/5/00	8260B	CJR	1
Vinyl Chloride	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
m&p-Xylene	< 20	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
o-Xylene	< 10	ug/kg	7	23	_1	9/5/00	8260B	CJR	ī
Lab Code 5030692C		<u> </u>				Sample Type	Soil		<u> </u>
Sample ID B-2 (6-9')				·		Sample Date	8/28/00)	
Inorganic		· · · · · · · · · · · · · · · · · · ·							
General									
Solids Percent	85.3	%			1	8/30/00	5021	SAD	ı
Organic									
VOC's									
Acetone	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	2
Benzene	< 10	ug/kg	6.8	23	1	9/5/00	8260B	CJR	1
Bromodichloromethane	< 10	ug/kg	5.8	19	1	9/5/00	8260B	CJR	1
Bromoform	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Bromomethane	< 10	ug/kg	10	35	ı	9/5/00	8260B	CJR	1
Carbon Disultide	< 10	ug/kg	5.7	19	1	9/5/00	8260B	CJR	347
Carbon Tetrachloride	< 10	ug/kg	10	33	1	9/5/00	8260B	CJR	1
Chlorobenzene	< 10	ug/kg	5.6	19	I	9/5/00	8260B	CJR	1
Chloroethane	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Chloroform	< 10	ug/kg	4.1	14	1	9/5/00	8260B	CJR	1
Chloromethane	< 10	ug/kg	10	35	ı	9/5/00	8260B	CJR	3 7
Dibromochloromethane	< 10	ug/kg	9.1	30	1	9/5/00	8260B	CJR	1
1,2-Dichloroethane	< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	1
1,1-Dichloroethane	< 10	ug/kg	8.3	28	1	9/5/00	8260B	CJR	1
1,1-Dichloroethene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	1
cis-1,2-Dichloroethene	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
trans-1,2-Dichloroethene	< 10	ug/kg	8.8	29	1	9/5/00	8260B	CJR	1

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project # 00618

Project Name MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5030692C B-2 (6-9')						Sample Type Sample Date)	
	hloropropane	< 10	ug/kg	8.8	29		9/5/00	8260B	CJR	
	3-Dichloropropene	< 10	ug∕kg ug∕kg	8.7	29	1	9/5/00	8260B	CJR	1
	Dichloropropene	< 10	ug/kg	7.6	25	1	9/5/00	8260B	CJR	i
Ethylbe	• •	< 10	ug/kg ug/kg	4.4	15	1	9/5/00	8260B	CJR	1
2.Hexa		< 10	ug/kg	8.2	27	ì	9/5/00	8260B	CJR	i
	ethyl ketone	< 10	ug/kg	10	35	i	9/5/00	8260B	CJR	1
•	isobutyl ketone	< 10	ug/kg	8.6	29	1	9/5/00	8260B	CJR	1
•	ene chloride	< 10	ug/kg	9	30	1	9/5/00	8260B	CJR	1
Styrene		< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	t
•	-Tetrachloroethane	< 10	ug/kg	5.2	17	1	9/5/00	8260B	CJR	1
	loroethene	160	ug/kg	6.6	22	1	9/5/00	8260B	CJR	i
Toluen		< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	i
	richloroethane	< 10	ug/kg	10	33	1	9/5/00	8260B	CJR	1
	richloroethane	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
	roethene	< 10	ug/kg	7.7	26	1	9/5/00	8260B	CJR	1
	Chloride	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	i
m&p-X		< 20	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
o-Xyler	-	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	1
Lab Code	5030692D						Sample Type	e Soil		
Sample ID	B-3 (3-6')						Sample Date		o	
Inorganic			·							
General										
Solids	Percent	87.4	%			1	8/30/00	5021	SAD	1
Organic										
VOC's										
Aceton	•	< 10	ug/kg	10	34	ı	9/5/00	8260B	. CJR	2
Benzen	· -	< 10	ug/kg ug/kg	6.8	23		9/5/00	8260B	CJR	1
	dichloromethane	< 10	ug/kg ug/kg	5.8				8260B	CJR	1
Bromo		< 10	• •	10	-			8260B	CJR	1
	methane	< 10	ug/kg ug/kg	10	•			8260B	CJR	1
	Disulfide	< 10	ug/kg ug/kg	5.7				8260B	CJR	347
	Tetrachloride	< 10	ug/kg ug/kg	3.7 10		_		8260B	CJR	1
	benzene	< 10	ug/kg ug/kg	5.6			,	8260B	CJR	1
Chioro	-	< 10	ug/kg	3.0 10				8260B	CJR	1
Chloro		< 10			14			8260B	CJR	i
Cmoro	IOITI	< 10	ug/kg	4.1	14	. 1	9/3/00	8700R	CJK	ı

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project # 00618 Project Name MORE

MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Cod
Lab Code	5030692D						Sample Type	Soil		
Sample ID	B-3 (3-6')						Sample Date)	
Chloror	methane	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	3 7
Dibrom	ochloromethane	< 10	ug/kg	9.1	30	1	9/5/00	8260B	CJR	1
1,2-Dic	hloroethane	< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	1
1,1-Dic	hloroethane	< 10	ug/kg	8.3	28	1	9/5/00	8260B	CJR	1
1,1-Dic	hloroethene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	l
cis-1,2-	Dichloroethene	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
trans-1,	2-Dichloroethene	< 10	ug/kg	8.8	29	1	9/5/00	8260B	CJR	1
1,2-Dic	hloropropane	< 10	ug/kg	8.8	29	ı	9/5/00	8260B	CJR	l l
trans-1,	3-Dichloropropene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	1
cis-1,3-	Dichloropropene	< 10	ug/kg	7.6	25	1	9/5/00	8260B	CJR	1
Ethylbe	nzene	< 10	ug/kg	4.4	15	1	9/5/00	8260B	CJR	1
2-Hexa	none	< 10	ug/kg	8.2	27	1	9/5/00	8260B	CJR	ì
Methyl	ethyl ketone	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	1
Methyl	isobutyl ketone	< 10	ug/kg	8.6	29	1	9/5/00	8260B	CJR	1
Methyl	ene chloride	< 10	ug/kg	9	30	1	9/5/00	8260B	CJR	1
Styrene	:	< 10	ug/kg	3.8	13	I	9/5/00	8260B	CJR	ı
1,1,2,2	-Tetrachloroethane	< 10	ug/kg	5.2	17	ì	9/5/00	8260B	CJR	1
Tetrach	nloroethene	< 10	ug/kg	6.6	22	i	9/5/00	8260B	CJR	1
Toluen	e	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	1
1,1,1-T	richloroethane	< 10	ug/kg	10	33	ì	9/5/00	8260B	CJR	i
1,1,2-T	richloroethane	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
Trichlo	roethene	< 10	ug/kg	7.7	26	ı	9/5/00	8260B	CJR	1
Vinyl (Chloride	< 10	ug/kg	10	34	1	9/5/00	\$260B	CJR	1
m&p-X	(ylene	< 20	ug/kg	9.3	31	ı	9/5/00	8260B	CJR	1
o-Xyle	ne	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	1
Lab Code	5030692F						Sample Type	Soil		
Sample ID	B-5 (6-9')						Sample Date	8/28/00	•	
Sample ID norganic	B-5 (6-9')			 -		===	Sample Date	8/28/00	· 	=
General Solids	Percent	84.1	%			ı	8/30/00	5021	SAD	ι
тдапіс										
VOC's										
Aceton	ne	< 10	ug/kg	10	34	l	9/5/00	8260B	CJR	2
Benzer	ne	< 10	ug∕kg	6.8	23	l	9/5/00	8260B	CJR	ι
Bromo	dichloromethane	< 10	ug∕kg	5.8	19	1	9/5/00	8260B	CJR	1

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #

00618

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Project Name MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5030692F						Sample Type	Soil		
Sample ID	B-5 (6-9')						Sample Date	8/28/00)	
Bromo	form	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Bromo	methane	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	ı
Carbon	Disulfide	< 10	ug/kg	5.7	19	1	9/5/00	8260B	CJR	3 4 7
Carbon	Tetrachloride	< 10	ug/kg	10	33	1	9/5/00	8260B	CJR	l
Chloro	benzene	< 10	ug/kg	5.6	19	1	9/5/00	8260B	CJR	1
Chloro	ethane	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Chloro	form	< 10	ug/kg	4.1	14	1	9/5/00	8260B	CJR	1
Chloro	methane	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	3 7
Dibron	nochloromethane	< 10	ug/kg	9.1	30	i	9/5/00	8260B	CJR	1
1,2-Dic	chloroethane	< 10	ug/kg	3.8	13	ı	9/5/00	8260B	CJR	ι
1,1-Dic	chloroethane	< 10	ug/kg	8.3	28	1	9/5/00	8260B	CJR	1
1,1-Dic	chloroethene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	1
c1s-1,2	-Dichloroethene	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
trans-l	.2-Dichloroethene	< 10	ug/kg	8.8	29	ı	9/5/00	8260B	CJR	1
1,2-Dic	chloropropane	< 10	ug/kg	8.8	29	i	9/5/00	8260B	CJR	t
trans-1	,3-Dichloropropene	< 10	ug/kg	8.7	29	l	9/5/00	8260B	CJR	1
cis-1,3	-Dichloropropene	< 10	ug/kg	7.6	25	ı	9/5/00	8260B	CJR	1
Ethylbe	enzene	< 10	ug/kg	4.4	15	l	9/5/00	8260B	CJR	ı
2-Hexa	anone	< 10	ug/kg	8.2	27	1	9/5/00	8260B	CJR	l
Methyl	lethyl ketone	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	1
Methyl	l isobutyl ketone	20 "J"	ug/kg	8.6	29	1	9/5/00	8260B	CJR	1
Methyl	lene chloride	< 10	ug/kg	9	30	1	9/5/00	8260B	CJR	1
Styren	e	< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	1
1,1,2,2	-Tetrachloroethane	< 10	ug/kg	5.2	17	ı	9/5/00	8260B	CJR	1
Tetraci	hloroethene	< 10	ug/kg	6.6	22	t	9/5/00	8260B	CJR	t
Toluen	ne	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	1
1,1,1-T	Frichloroethane	< 10	ug/kg	10	33	1	9/5/00	8260B	CJR	1
1,1,2-7	Frichloroethane	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	ı
Trichle	proethene	< 10	ug/kg	7.7	26	. 1	9/5/00	8260B	CJR	1
Vinyl (Chloride	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
m&p->	Xylene	< 20	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
o-Xyle		< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	1

TOM BRECHEISEN
PIONEER ENVIRONMENTAL
1000 NORTH HALSTED
CHICAGO IL 60622

Project #

00618

Project Name

MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5030692G B-6 (3-6')						Sample Type Sample Date)	
Inorganic			 _				<u></u>			
General										
Solids P	ercent	84.5	%			ı	8/30/00	5021	SAD	1
Organic										
VOC's										
Acetone	•	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	2
Benzen		< 10	ug/kg	6.8	23	ī	9/5/00	8260B	CJR	ì
Bromod	lichloromethane	< 10	ug/kg	5.8	19	1	9/5/00	8260B	CJR	ı
Bromof	оrm	< 10	ug/kg	10	34	ı	9/5/00	8260B	CJR	1
Bromon	nethane	< 10	ug/kg	10	35	i	9/5/00	8260B	CJR	1
Carbon	Disulfide	< 10	ug/kg	5.7	19	;	9/5/00	8260B	CJR	3 4 7
Carbon	Tetrachloride	< 10	ug/kg	10	33	1	9/5/00	8260B	CJR	1
Chlorob	enzene	< 10	ug/kg	5.6	19	l	9/5/00	8260B	CJR	1
Chloroe	thane	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Chlorof	orm .	< 10	ug⁄kg	4.1	14	1	9/5/00	8260B	CJR	1
Chloror	nethane	< 10	ug/kg	10	35	i	9/5/00	8260B	CJR	3 7
Dibrom	ochloromethane	< 10	ug/kg	9.1	30	1	9/5/00	8260B	CJR	Į.
1,2-Dic	hloroethane	< 10	ug/kg	3.8	13	l	9/5/00	8260B	CJR	1
1,1-Dic	hloroethane	< 10	ug/kg	8.3	28	1	9/5/00	8260B	CJR	1
1,1-Dic	hloroethene	18 - J"	ug/kg	8.7	29	i	9/5/00	8260B	CJR	t
cis-1,2-	Dichloroethene	3300	ug/kg	9.3	31	l	9/5/00	8260B	CJR	1
trans-1,	2-Dichloroethene	91	ug/kg	8.8	29	i	9/5/00	8260B	CJR	1
1,2-Dic	hloropropane	< 10	ug/kg	8.8	29	1	9/5/00	8260B	CJR	1
trans-1,	3-Dichloropropene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	i
cis-1,3-	Dichloropropene	< 10	ug/kg	7.6	25	1	9/5/00	8260B	CJR	1
Ethylbe	mzene	< 10	ug/kg	4.4	15	l	9/5/00	8260B	CJR	1
2-Hexa	none	< 10	ug/kg	8.2	27	l	9/5/00	8260B	CJR	1
Methyl	ethyl ketone	< 10	ug/kg	10	35	i	9/5/00	8260B	CJR	i
Methyl	isobutyl ketone	< 10	ug/kg	8.6	29	1	9/5/00	8260B	CJR	1
Methyle	ene chloride	< 10	ug/kg	9	30	1	9/5/00	8260B	CJR	1
Styrene		< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	l
	Tetrachloroethane	< 10	ug/kg	5.2	17	1	9/5/00	8260B	CJR	1
	loroethene	1600	ug/kg	6.6	22	1	9/5/00	8260B	CJR	I
Toluene		14 "J"	ug/kg	7	23	1	9/5/00	8260B	CJR	l
	richloroethane	< 10	ug/kg	10	33	ł	9/5/00	8260B	CJR	1
1,1,2-T	richloroethane	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

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TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #
Project Name

00618

Project Name MOREY CORP / 2659 WISCON E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5030692G						Sample Type	Soil		
Sample ID	B-6 (3-6')						Sample Date	8/28/00)	
Trichlo	roethene	1000	ug/kg	7.7	26	1	9/5/00	8260B	CJR	1
Vinyl C	Chloride	46	ug/kg	10	34	1	9/5/00	8260B	CJR	1
m&p-X	[ylene	< 20	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
o-Xyler	ne	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	3
Lab Code	5030692H						Sample Type	Soil		
Sample ID	B-6 (9-12')						Sample Date)	· · · · · · · · · · · · · · · · · · ·
Inorganic										
General										
Solids I	Percent	88.7	%			1	9/12/00	5021	SAD	t
Organic										
VOC's										
Aceton	e	< 10	ug/kg	10	34	1	9/12/00	8260B	CJR	1
Benzen	e	< 10	ug/kg	6.8	23	1	9/12/00	8260B	CJR	ı
Bromod	dichloromethane	< 10	ug/kg	5.8	19	ı	9/12/00	8260B	CJR	1
Bromot	form	< 10	ug/kg	10	34	l	9/12/00	8260B	CJR	4
Bromo	methane	< 10	ug/kg	10	35	1	9/12/00	8260B	CJR	1
Carbon	Disulfide	< 10	ug/kg	5.7	19	1	9/12/00	8260B	CJR	347
Carbon	Tetrachloride	< 10	ug/kg	10	33	1	9/12/00	8260B	CJR	1
Chlorol	benzene	< 10	ug/kg	5.6	19	1	9/12/00	8260B	CJR	1
Chloroe	ethane	< 10	ug/kg	10	34	1	9/12/00	8260B	CJR	1
Chloro	form	< 10	ug/kg	4.1	14	1	9/12/00	8260B	CJR	1
Chloro	methane	< 10	ug/kg	10	35	ı	9/12/00	8260B	CJR	t
Dibron	nochloromethane	< 10	ug/kg	9.1	30	1	9/12/00	8260B	CJR	t
1,2-Dic	:hloroethane	< 10	ug/kg	3.8	13	1	9/12/00	8260B	CJR	1
1,1-Dic	thloroethane	< 10	ug/kg	8.3	28	1	9/12/00	8260B	CJR	1
1,1-Dic	hioroethene	< 10	սg/kg	8.7	29	1	9/12/00	8260B	CJR	1
cis-1,2-	-Dichloroethene	30 " J"	ug/kg	9.3	31	1	9/12/00	8260B	CJR	1
trans-1	,2-Dichloroethene	< 10	ug/kg	8.8	29	1	9/12/00	8260B	CJR	1
1,2-Dic	hloropropane	< 10	ug/kg	8.8	29	i	9/12/00	8260B	CJR	1
trans-1	,3-Dichloropropene	< 10	ug/kg	8.7	29	ı	9/12/00	8260B	CJR	1
	-Dichloropropene	< 10	ug/kg	7.6	25	ì	9/12/00	8260B	CJR	1
Ethylbe	• •	< 10	ug/kg	4.4		_		8260B	CJR	1
2-Hexa		< 10	ug/kg	8.2		-		8260B	CJR	1
	ethyl ketone	< 10	ug/kg	10		•		8260B	CJR	3
_	isobutyl ketone	< 10	ug/kg	8.6		_	9/12/00	8260B	CJR	1

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

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TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #

00618

Invoice #

Project Name MOREY CORP / 2659 WISCON

E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5030692H B-6 (9-12')						Sample Type Sample Date)	
Methyle	ene chloride	< 10	ug/kg	9	30	1	9/12/00	8260B	CJR	ı
Styrene		< 10	ug/kg	3.8	13	1	9/12/00	8260B	CJR	3 7
1,1,2,2-	Tetrachloroethane	< 10	ug/kg	5.2	17	1	9/12/00	8260B	CJR	1
Tetrach	loroethene	55	ug/kg	6.6	22	l	9/12/00	8260B	CJR	1
Toluene	:	< 10	ug/kg	7	23	1	9/12/00	8260B	CJR	1
1,1,1-T	richloroethane	< 10	ug/kg	10	33	l	9/12/00	8260B	CJR	1
1,1,2-Ti	richloroethane	< 10	ug/kg	9.3	31	1	9/12/00	8260B	CJR	1
Trichlo	roethene	10 "J"	ug/kg	7.7	26	1	9/12/00	8260B	CJR	ı
Vinyl C	Thloride	< 10	ug/kg	10	34	1	9/12/00	8260B	CJR	1
m&p-X	ylene	< 20	ug/kg	9.3	31	1	9/12/00	8260B	CJR	1
o-Xyler	ne	< 10	ug/kg	7	23	- 1	9/12/00	8260B	CJR	_ 1
Lab Code	5030692I						Sample Type	Soil		
Sample ID	B-7 (3-6')						Sample Date)	- <u>-</u>
Inorganic										
General										
Solids I	Percent	85.5	%			1	8/30/00	5021	SAD	1
Organic										
VOC's										
Aceton	•	< 10	ug/kg	10	34	ı	9/5/00	8260B	CJR	2
Benzen		< 10	ug/kg	6.8	23		9/5/00	8260B	CJR	1
	dichloromethane	< 10	ug/kg	5.8	19	1	9/5/00	8260B	CJR	1
Bromot		< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
	methane	< 10	ug/kg	10	35		9/5/00	8260B	CJR	1
	Disulfide	< 10	ug/kg	5.7	19	ı	9/5/00	8260B	CJR	347
-	Tetrachloride	< 10	ug/kg	10	33	1	9/5/00	8260B	CJR	1
=	benzene	< 10	ug/kg	5.6	19	1	9/5/00	8260B	CJR	1
Chloroe		< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Chlorof		< 10	ug/kg	4.1	14	1	9/5/00	8260B	CJR	i i
	methane	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	3 7
•	nochloromethane	< 10	ug/kg	9.1	30	1	9/5/00	8260B	CJR	1
	thloroethane	< 10	ug/kg	3.8	13	i	9/5/00	8260B	CJR	1
•	hloroethane	< 10	ug/kg	8.3	28	1	9/5/00	8260B	CJR	i
	hloroethene	< 10	ug/kg	8.7	29	i	9/5/00	8260B	CJR	1
•	Dichloroethene	< 10	ug∕kg	9.3	31	1	9/5/00	8260B	CJR	1
•	2-Dichloroethene	< 10	ug∕kg	8.8	29	1	9/5/00	8260B	CJR	1

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TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #

00618

Project Name MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	rod	Dil	Run Date	Method	Analyst	QC Code
Lab Code	50306921						Sample Type			
Sample ID	B-7 (3-6')						Sample Date	8/28/00	·	
1,2-Dich	loropropane	< 10	ug/kg	8.8	29	ł	9/5/00	8260B	CJR	1
trans-1,3	3-Dichloropropene	< 10	ug∕kg	8.7	29	l	9/5/00	8260B	CJR	1
cis-1,3-E	Dichloropropene	< 10	ug/kg	7.6	25	l	9/5/00	8260B	CJR	1
Ethylber	nzene	< 10	ug∕kg	4.4	15	1	9/5/00	8260B	CJR	1
2-Hexan	one	< 10	ug/kg	8.2	27	1	9/5/00	8260B	CJR	1
Methyl e	thy! ketone	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	1
Methyl i	sobutyl ketone	< 10	ug/kg	8.6	29	1	9/5/00	8260B	CJR	. 1
Methyle	ne chloride	< 10	ug/kg	9	30	1	9/5/00	8260B	CJR	l
Styrene		< 10	ug/kg	3.8	13	I	9/5/00	8260B	CJR	1
1,1,2,2-T	letrachloroethane	< 10	ug/kg	5.2	17	1	9/5/00	8260B	CJR	l
Tetrachle	oroethene	< 10	ug/kg	6.6	22	1	9/5/00	8260B	CJR	1
Toluene		< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	1
l,l,l-Tri	ichloroethane	< 10	ug/kg	10	33	l	9/5/00	8260B	CJR	1
1,1,2-Tri	ichloroethane	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
Trichlore	oethene	< 10	ug/kg	7.7	26	l	9/5/00	8260B	CJR	ι
Vinyl Cl	hloride	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	l
m&p-Xy	ylene	< 20	ug/kg	9.3	31	1	9/5/00	8260B	CJR	l
o-Xylene	c	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	11
Lab Code	5030692J						Sample Type	Soil		
Sample ID	B-7 (3-6')						Sample Date)	
Inorganic	_									
General										
Total Or	ganic Carbon	4650	mg/kg	182	607		9/6/00	9060	REL	1 61
Physicals										
Soil PH		7.2	su			1	9/13/00	9045	CAH	1
Lab Code	5030692M						Sample Type	Soil		
Sample ID	B-10 (4-6')						Sample Date)	
						===				
Inorganic										
General										
Solids P	ercent	86.3	%			ı	8/30/00	5021	SAD	. 1
Organic										
VOC's										
Acetone	•	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	2

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TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

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Proiect Name MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5030692M						Sample Type	Soil		
Sample ID	B-10 (4-6')						Sample Date	8/29/00)	
Benzen	ic	< 10	ug/kg	6.8	23	1	9/5/00	8260B	CJR	1
Bromoo	dichloromethane	< 10	ug/kg	5.8	19	1	9/5/00	8260B	CJR	1
Bromo	(orm	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Bromo	methane	< 10	ug/kg	10	35	1	9/5/00	8260B	CJR	1
Carbon	Disulfide	< 10	ug/kg	5.7	19	1	9/5/00	8260B	CJR	3 4 7
Carbon	Tetrachloride	< 10	ug/kg	10	33	1	9/5/00	8260B	CJR	1
Chlorol	benzene	< 10	ug/kg	5.6	19	1	9/5/00	8260B	CJR	1
Chloroe	ethane	< 10	ug/kg	10	34	1	9/5/00	8260B	CJR	1
Chloroi	form	< 10	ug/kg	4.1	14	1	9/5/00	8260B	CJR	1
Chloro	methane	< 10	ug∕kg	10	35	1	9/5/00	8260B	CJR	3 7
Dibron	nochloromethane	< 10	ug/kg	9.1	30	1	9/5/00	8260B	CJR	1
1,2-Dic	:hloroethane	< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	i
1,1-Dic	thloroethane	< 10	ug/kg	8.3	28	ı	9/5/00	8260B	CJR	1
1,1-Dic	thioroethene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	1
cis-1,2-	-Dichloroethene	14 "J"	ug/kg	9.3	31	ı	9/5/00	8260B	CJR	1
trans-1,	,2-Dichloroethene	< 10	ug/kg	8.8	29	1	9/5/00	8260B	CJR	1
1,2-Dic	hloropropane	< 10	ug/kg	8.8	29	1	9/5/00	8260B	CJR	1
trans-1	,3-Dichloropropene	< 10	ug/kg	8.7	29	1	9/5/00	8260B	CJR	ı
cis-1,3-	-Dichloropropene	< 10	ug/kg	7.6	25	i	9/5/00	8260B	CJR	1
Ethylbe	enzene	< 10	ug/kg	4.4	15	ì	9/5/00	8260B	CJR	1
2-Hexa	inone	< 10	ug/kg	8.2	27	1	9/5/00	8260B	CJR	1
Methyl	ethyl ketone	< 10	ug/kg	10	35	ì	9/5/00	8260B	CJR	1
Methyl	isobutyl ketone	< 10	ug/kg	8.6	29	1	9/5/00	8260B	CJR	ì
Methyl	iene chloride	< 10	ug/kg	9	30	1	9/5/00	8260B	CJR	i
Styrene	•	< 10	ug/kg	3.8	13	1	9/5/00	8260B	CJR	1
1,1,2,2	-Tetrachloroethane	< 10	ug/kg	5.2	17	1	9/5/00	8260B	CJR	1
Tetracl	hloroethene	59000	ug/kg	330	1100	1	9/6/00	8260B	CJR	1
Toluen	e	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	1
1,1,1-7	richloroethane	< 10	ug/kg	10	33	1	9/5/00	8260B	CJR	ı
1,1,2-7	richloroethane	< 10	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
Trichlo	proethene	45	ug/kg	7.7	26	1	9/5/00	8260B	CJR	1
Vinyl (Chloride	< 10	u g∕kg	10	34	1	9/5/00	8260B	CJR	1
m&p-)	Kylene	< 20	ug/kg	9.3	31	1	9/5/00	8260B	CJR	1
o-Xyle	ne	< 10	ug/kg	7	23	1	9/5/00	8260B	CJR	ı

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project # Project Name

00618

MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code	
Lab Code Sample ID	5030692N B-10 (10-12')						Sample Type Sample Date)		
Inorganic										<u> </u>	
General											
Solids P	ercent	86.8	%			1	9/12/00	5021	SAD	1	
Organic											
VOC's											
Acetone	•	< 10	ug/kg	10	34	1	9/12/00	8260B	CJR	1	
Benzene		< 10	ug/kg	6.8	23	i	9/12/00	8260B	CJR	1	
	- lichloromethane	< 10	ug/kg	5.8	19	i	9/12/00	8260B	CJR	1	
Bromofe		< 10	ug/kg	10	34	1	9/12/00	8260B	CJR	4	
Bromon		< 10	ug/kg	10	35	i	9/12/00	8260B	CJR	1	
	Disulfide	< 10	ug/kg	5.7	19	1	9/12/00	8260B	CJR	347	
	Tetrachloride	< 10	ug/kg	10	33	1	9/12/00	8260B	CJR	1	
Chlorob		< 10	ug/kg	5.6	19	ı	9/12/00	8260B	CJR	1	
Chloroe		< 10	ug/kg	10	34	ì	9/12/00	8260B	CJR	1	
Chlorofe	=	< 10	ug/kg	4.1	14	1	9/12/00	8260B	CJR	1	
Chloron		< 10	ug/kg	10	35	1	9/12/00	8260B	CJR	1	
	ochloromethane	< 10	ug/kg	9.1	30		9/12/00	8260B	CJR	1	
	hloroethane	< 10	ug/kg	3.8	13	1	9/12/00	8260B	CJR	1	
•	hloroethane	< 10	ug/kg	8.3	28	-	9/12/00	8260B	CJR	1	
•	hloroethene	< 10	ug/kg	8.7	29	1	9/12/00	8260B	CJR	1	
cis-1.2-	Dichloroethene	49	ug/kg	9.3	31	1	9/12/00	8260B	CJR	1	
trans-1.	2-Dichloroethene	< 10	ug/kg	8.8	29		9/12/00	8260B	CJR	1	
1.2-Dic	hloropropane	< 10	ug/kg	8.8	29	1	9/12/00	8260B	CJR	1	
	3-Dichloropropene	< 10	ug/kg	8.7	29		9/12/00	8260B	CJR	1	
	Dichloropropene	< 10	ug/kg	7.6	25	-	9/12/00	8260B	CJR	1	
Ethylbe	• •	< 10	ug/kg	4.4	15		9/12/00	8260B	CJR	1	
2-Hexa		< 10	ug/kg	8.2	27	_	9/12/00	8260B	CJR	1	
Methyl	ethyl ketone	< 10	ug/kg	10			9/12/00	8260B	CJR	3	
•	isobutyl ketone	< 10	ug/kg	8.6	29		9/12/00	8260B	CJR	1	
•	ene chloride	< 10	ug/kg	9	30	1	9/12/00	8260B	CJR	1	
Styrene	•	< 10	ug/kg	3.8	13	1	9/12/00	8260B	CJR	3 7	
-	Tetrachloroethane	< 10	ug/kg	5.2			9/12/00	8260B	CJR	l	
Tetrach	loroethene	5800	ug/kg	6.6		_	9/12/00	8260B	CJR	1	
Toluene		< 10	ug/kg	7		-	9/12/00	8260B	CJR	ī	
1,1,1-T	richloroethane	< 10	ug/kg	10		_	9/12/00	8260B	CJR	1	
1127	richloroethane	< 10	ug/kg	9.3		_	9/12/00	8260B	CJR	1	

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TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #

00618

Project Name

MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5030692N B-10 (10-12')			7			Sample Type Sample Date)	
Trichlor	roethene	19 "J"	ug/kg	7.7	26	i	9/12/00	8260B	CJR	1
Vinyl C	hloride	< 10	ug/kg	10	34	1	9/12/00	8260B	CJR	. 1
m&p-X	ylene	< 20	ug/kg	9.3	31	1	9/12/00	8260B	CJR	l l
o-Xylen	ie	15 "J"	ug/kg	7	23	1	9/12/00	8260B	CJR	i
Lab Code Sample ID	5030692O B-11 (4-6')						Sample Type Sample Date)	
Inorganic										
General										
Solids P	ercent	85.0	%			l	8/30/00	5021	SAD	l
Organic										
VOC's										
Acetone	:	< 10	ug/kg	10	34	1	9/6/00	8260B	CJR	1
Benzene	•	< 10	ug/kg	6.8	23	1	9/6/00	8260B	CJR	1
Bromod	lichloromethane	< 10	ug/kg	5.8	19	1	9/6/00	8260B	CJR	l
Bromof	orm .	< 10	ug/kg	10	34	1	9/6/00	8260B	CJR	l
Bromon	nethane	< 10	u g/kg	10	35	1	9/6/00	8260B	CJR	i
Carbon	Disulfide	< 10	u g/kg	5.7	19	l	9/6/00	8260B	CJR	3 4 7
Carbon	Tetrachloride	< 10	ug/kg	10	33	1	9/6/00	8260B	CJR	l
Chlorob	enzene	< 10	u g/kg	5.6	19	1	9/6/00	8260B	CJR	1
Chloroe	thane	< 10	ug/kg	10	34	1	9/6/00	8260B	CJR	1
Chlorof	orm	< 10	ug/kg	4.1	14	ì	9/6/00	8260B	CJR	1
Chloron	nethane	< 10	ug/kg	10	35	ì	9/6/00	8260B	CJR	1
Dibrom	ochloromethane	< 10	ug/kg	9.1	30	1	9/6/00	8260B	CJR	ı
1,2-Dic	hloroethane	< 10	ug/kg	3.8	13	1	9/6/00	8260B	CJR	1
1,1-Dic	hloroethane	< 10	ug/kg	8.3	28	1	9/6/00	8260B	CJR	1
1,1-Dic	hloroethene	< 10	ug/kg	8.7	29	1	9/6/00	8260B	CJR	1
cis-1,2-	Dichloroethene	< 10	ug/kg	9.3	31	1	9/6/00	8260B	CJR	1
trans-1,	2-Dichloroethene	< 10	ug/kg	8.8	29	1	9/6/00	8260B	CJR	1
1,2-Dic	hloropropane	< 10	ug/kg	8.8	29	1	9/6/00	8260B	CJR	1
trans-1,	3-Dichloropropene	< 10	ug/kg	8.7	29	1	9/6/00	8260B	CJR	l
cis-1,3-	Dichloropropene	< 10	ug/kg	7.6	25	1	9/6/00	8260B	CJR	ı
Ethylbe	nzene	< 10	ug/kg	4.4	15	ı	9/6/00	8260B	CJR	ı
2-Hexa	none	< 10	ug/kg	8.2	27	1	9/6/00	8260B	CJR	4
Methyl	ethyl ketone	< 10	ug/kg	10	35	1	9/6/00	8260B	CJR	l
Methyl	isobutyl ketone	< 10	ug/kg	8.6	29	1	9/6/00	8260B	CJR	1

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TOM BRECHEISEN
PIONEER ENVIRONMENTAL
1000 NORTH HALSTED
CHICAGO IL 60622

Project #

00618

Project Name

MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5030692O						Sample Type			
Sample ID	B-11 (4-6')						Sample Date	8/29/00) 	<u> </u>
Methyle	ene chloride	< 10	ug/kg	9	30	l	9/6/00	8260B	CJR	1
Styrene		< 10	ug/kg	3.8	13	1	9/6/00	8260B	CJR	4
1,1,2,2-	Tetrachloroethane	< 10	ug/kg	5.2	17	l	9/6/00	8260B	CJR	i
Tetrachi	loroethene	< 10	ug/kg	6.6	22	1	9/6/00	8260B	CJR	t
Toluene	•	< 10	ug∕kg	7	23	1	9/6/00	8260B	CJR	I
1,1,1-Tr	richloroethane	< 10	ug/kg	10	33	1	9/6/00	8260B	CJR	i
1,1,2-Tr	richloroethane	< 10	ug/kg	9.3	31	1	9/6/00	8260B	CJR	1
Trichlor	roethene	< 10	цg/kg	7.7	26	l	9/6/00	8260B	CJR	t
Vinyl C	hloride	< 10	ug∕kg	10	34	1	9/6/00	8260B	CJR	1
m&p-X	ylene	< 20	ug/kg	9.3	31	ı	9/6/00	8260B	CJR	I
o-Xylen	ne	< 10 ·	ug/kg	7	23	t_	9/6/00	8260B	CJR	1
Lab Code	5030692P						Sample Type	Soil	<u></u>	
Sample ID	B-12 (4-6')						Sample Date)	
Inorganic										
General										
Solids P	Percent	87.9	%			ı	8/30/00	5021	SAD	ι
Organic										
VOC's										
Acetone	c	< 10	ug/kg	10	34	1	9/6/00	8260B	CJR	1
Benzen	c	< 10	ug/kg	6.8	23	1	9/6/00	8260B	CJR	l
Bromod	dichloromethane	< 10	ug/kg	5.8	. 19	l	9/6/00	8260B	CJR	t
Bromof	lorm .	< 10	ug/kg	10	34	ł	9/6/00	8260B	CJR	ι
Bromor	methane	< 10	ug/kg	10	35	1	9/6/00	8260B	CJR	ι
Carbon	Disulfide	< 10	ug/kg	5.7	19	1	9/6/00	8260B	CJR	3 4 7
Carbon	Tetrachloride	< 10	ug/kg	10	33	1	9/6/00	8260B	CJR	l
Chlorot	benzene	< 10	ug/kg	5.6	19	i	9/6/00	8260B	CJR	l
Chloroe	ethane	< 10	ug/kg	10	34	1	9/6/00	8260B	CJR	1
Chlorof	lom .	< 10	ug/kg	4.1	14	1	9/6/00	8260B	CJR	1
Chloror	methane	< 10	ug/kg	10	35	1	9/6/00	8260B	CJR	1
Dibrom	ochloromethane	< 10	ug/kg	9.1	30	1	9/6/00	8260B	CJR	1
1,2-Dic	hioroethane	< 10	ug/kg	3.8	13	1	9/6/00	8260B	CJR	1
1,1-Dic	hloroethane	< 10	ug/kg	8.3	28	1	9/6/00	8260B	CJR	1
1,1-Dic	hloroethene	< 10	ug/kg	8.7	29	1	9/6/00	8260B	CJR	1
cis-1,2-	-Dichloroethene	< 10	ug/kg	9.3	31	1	9/6/00	8260B	CJR	l
trans-1,	2-Dichloroethene	< 10	ug/kg	8.8	29	1	9/6/00	8260B	CJR	1

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TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project #

00618

Invoice #

Project Name MOREY CORP / 2659 WISCON

ice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5030692P B-12 (4-6')						Sample Type Sample Date	Soil 8/29/00)	
1,2-Dic	chloropropane	< 10	ug/kg	8.8	29	l	9/6/00	8260B	CJR	l
trans-1	,3-Dichloropropene	< 10	ug/kg	8.7	29	l	9/6/00	8260B	CJR	l
cis-1,3-	-Dichloropropene	< 10	ug/kg	7.6	25	1	9/6/00	8260B	CJR	t
Ethylbo	enzene	< 10	ug/kg	4.4	15	1	9/6/00	8260B	CJR	1
2-Hexa	none	< 10	ug/kg	8.2	27	1	9/6/00	8260B	CJR	4
Methyl	ethyl ketone	< 10	ug/kg	10	35	1	9/6/00	8260B	CJR	1
Methyl	isobutyl ketone	< 10	ug/kg	8.6	29	1	9/6/00	8260B	CJR	1
Methyl	ene chloride	40	ug/kg	9	30	i	9/6/00	8260B	CJR	1 41
Styrene	:	< 10	ug/kg	3.8	13	l	9/6/00	8260B	CJR	4
1,1,2,2	-Tetrachloroethane	< 10	ug/kg	5.2	17	1	9/6/00	8260B	CJR	1
Tetracl	nioroethene	< 10	ug/kg	6.6	22	l	9/6/00	8260B	CJR	1
Toluen	c	< 10	ug/kg	7	23	1	9/6/00	8260B	CJR	ı
1,1,1-T	richloroethane	< 10	ug/kg	10	33	1	9/6/00	8260B	CJR	l
1,1,2-T	richloroethane	< 10	ug/kg	9.3	31	1	9/6/00	8260B	CJR	1
Trichlo	proethene	< 10	ug/kg	7.7	26	1	9/6/00	8260B	CJR	1
Vinyl (Chloride	< 10	ug/kg	10	34	1	9/6/00	8260B	CJR	1
m&p->	(ylene	< 20	ug/kg	9.3	31	l	9/6/00	8260B	CJR	i
o-Xyle	ne	< 10	ug/kg	7	23	_ 1	9/6/00	8260B	CJR	1
Lab Code Sample ID	5030692Q B-13 (6-8')						Sample Type Sample Date	Soil 8/29/00	l	
Inorganic										
Inorganic General										
General	Percent	84.7	%			1	9/12/00	5021	SAD	1
General Solids	Percent	84.7	%			1	9/12/00	5021	SAD	1
General Solids Organic	Percent	84.7	%			1	9/12/00	5021	SAD	1
General Solids		84.7 < 10		10	34	1	9/12/00 9/12/00	5021 8260B	SAD CJR	1
General Solids Organic VOC's	ne	- "	ug/kg	10 6.8	34 23		-			•
General Solids Organic VOC's Acetor Benzer	ne	< 10	ug/kg ug/kg		_	1	9/12/00	8260B	CJR CJR	1
General Solids Organic VOC's Acetor Benzer	ne ne dichloromethane	< 10 < 10	ug/kg ug/kg ug/kg	6.8	23	1	9/12/00 9/12/00	8260B 8260B	CJR	1
General Solids Organic VOC's Acetor Benzer Bromo	ne ne dichloromethane	< 10 < 10 < 10	ug/kg ug/kg ug/kg ug/kg	6.8 5.8	23 19	1 1 1	9/12/00 9/12/00 9/12/00 9/12/00	8260B 8260B 8260B	CJR CJR CJR	1 1 1
General Solids Organic VOC's Acetor Benzer Bromo Bromo	ne ne dichloromethane oform	< 10 < 10 < 10 < 10	ug/kg ug/kg ug/kg	6.8 5.8 10	23 19 34	1 1 1	9/12/00 9/12/00 9/12/00	8260B 8260B 8260B 8260B	CJR CJR CJR CJR	1 1 1 4
General Solids Organic VOC's Acetor Benzer Bromo Bromo Carbor	ne ne dichloromethane oform omethane	< 10 < 10 < 10 < 10 < 10	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	6.8 5.8 10	23 19 34 35	1 1 1 1	9/12/00 9/12/00 9/12/00 9/12/00 9/12/00	8260B 8260B 8260B 8260B 8260B	CJR CJR CJR CJR CJR	1 1 1 4
General Solids Organic VOC's Acetor Benzer Bromo Bromo Carbor	ne ne odichloromethane oform omethane n Disulfide	< 10 < 10 < 10 < 10 < 10 < 10 < 10	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	6.8 5.8 10 10 5.7	23 19 34 35 19	1 1 1 1 1	9/12/00 9/12/00 9/12/00 9/12/00 9/12/00 9/12/00	8260B 8260B 8260B 8260B 8260B 8260B	CJR CJR CJR CJR CJR CJR	1 1 4 1 3 4 7
General Solids Organic VOC's Acetor Benzer Bromo Bromo Carbor Carbor	ne dichloromethane oform omethane n Disulfide n Tetrachloride	< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	6.8 5.8 10 10 5.7	23 19 34 35 19 33	1 1 1 1 1	9/12/00 9/12/00 9/12/00 9/12/00 9/12/00 9/12/00	8260B 8260B 8260B 8260B 8260B 8260B 8260B	CJR CJR CJR CJR CJR CJR CJR	1 1 4 1 3 4 7

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Allegan Caracata Caracata Allagaria (Caracata Caracata Ca

Project #

00618

Project Name MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5030692Q						Sample Type	Soil		
Sample ID	B-13 (6-8')						Sample Date	8/29/00	1	_
Chloro	methane	< 10	ug/kg	10	35	1	9/12/00	8260B	CJR	1
Dibron	nochloromethane	< 10	ug/kg	9.1	30	1	9/12/00	8260B	CJR	1
1,2-Dic	:hloroethane	< 10	ug/kg	3.8	13	1	9/12/00	8260B	CJR	1
1,1-Dic	:hloroethane	< 10	ug/kg	8.3	28	1	9/12/00	8260B	CJR	1
1,1-Dic	hloroethene	< 10	ug/kg	8.7	29	l	9/12/00	8260B	CJR	1
cis-1,2-	-Dichloroethene	< 10	·ug/kg	9.3	31	l	9/12/00	8260B	CJR	1
trans-1,	,2-Dichloroethene	< 10	ug/kg	8.8	29	l	9/12/00	8260B	CJR	1
1,2-Dic	:hloropropane	< 10	ug/kg	8.8	29	1	9/12/00	8260B	CJR	1
trans-1,	,3-Dichloropropene	< 10	ug/kg	8.7	29	1	9/12/00	8260B	CJR	1
cis-1,3-	-Dichloropropene	< 10	ug/kg	7.6	25	1	9/12/00	8260B	CJR	ı
Ethylbe	enzene	< 10	ug/kg	4.4	15	ı	9/12/00	8260B	CJR	t
2-Hexa	none	< 10	ug/kg	8.2	27	1	9/12/00	8260B	CJR	t
Methyi	ethyl ketone	< 10	ug/kg	10	35	ı	9/12/00	8260B	CJR	3
Methyl	isobutyl ketone	< 10	ug/kg	8.6	29	1	9/12/00	8260B	CJR	ı
Methyl	ene chloride	< 10	ug/kg	9	30	1	9/12/00	8260B	CJR	l
Styrene	:	< 10	ug/kg	3.8	13	i	9/12/00	8260B	CJR	3 7
1,1,2,2	-Tetrachloroethane	< 10	ug/kg	5.2	17	i	9/12/00	8260B	CJR	1
Tetrach	nloroethene	< 10	ug/kg	6.6	22	l	9/12/00	8260B	CJR	l
Toluen	c	< 10	ug/kg	7	23	l	9/12/00	8260B	CJR	l
1,1,1-T	richloroethane	< 10	ug/kg	10	33	l	9/12/00	8260B	CJR	I
1,1,2-T	richloroethane	< 10	ug/kg	9.3	31	l	9/12/00	8260B	CJR	1
Trichlo	proethene	< 10	ug/kg	7.7	26	1	9/12/00	8260B	CJR	1
Vinyl (Chloride	< 10	ug/kg	10	34	1	9/12/00	8260B	CJR	1
m&p-X	Kylene	< 20	ug/kg	9.3	31	1	9/12/00	8260B	CJR	ι
o-Xyle	ne	< 10	ug/kg	7	23	1	9/12/00	8260B	CJR	1
Lab Code	5030692T						Sample Type	e Soil		
Sample ID	B-14 (6-9')						Sample Date	8/29/00)	
Inorganic										
General										
	Percent	85.0	%			1	9/19/00	5021	SAD	1
Organic			· -			•			-	
VOC's										
Aceton	ne.	< 10	ug/kg	10	34	1	9/19/00	8260B	CJR	2 4
Benzer		< 10 < 10	ug/kg ug/kg	6.8			9/19/00	8260B	CJR	1
	dichloromethane	< 10	ug/kg ug/kg	o.a 5.8		_	9/19/00	8260B	CJR	1
Biolilo	dicinoromenane	- 10	π 8 \κ 8	5.8	. 19	ι	9/19/00	82000	CIK	,

1090 Kennedy Ave, Kimberly, WI 54136 * 920-735-8295 * FAX 920-739-1738 * 1-800-490-4902 WI DNR Lab Certification #445134030

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TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project # Project Name 00618

iect Name MOREY CORP

Invoice # E30933

Report Date 29-Sep-00

	Analyte	Result	Units	LOD	LOQ Di	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5030933A B-14 (3-6')					Sample Type Sample Date)	
norganic General Total O	organic Carbon	10800	mg/kg	462	1540	9/28/00	9060	REL	1 61
LOD Limit o	f Detection	-J- F	lag: Analyte de	tected betw	een LOD and	LOQ		LOQ Limit o	of Quantitation

Code Comment
 All laboratory QC requirements were met for this sample.
 Analysis performed by sub contract lab.

Authorized Signature

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

Project # 00618

Project Name MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5030692T						Sample Type			
Sample ID	B-14 (6-9')						Sample Date	8/29/0		
Bromo	form	< 10	ug/kg	10	34	1	9/19/00	8260B	CJR	1
Bromo	methane	< 10	ug/kg	10	35	ì	9/19/00	8260B	CJR	3 4 7
Carbon	Disulfide	< 10	ug/kg	5.7	19	1	9/19/00	8260B	CJR	3 4 7
Carbon	Tetrachloride	< 10	ug/kg	10	33	ı	9/19/00	8260B	CJR	1
Chloroi	benzene	< 10	ug/kg	5.6	19	1	9/19/00	8260B	CJR	l
Chloro	ethane	< 10	ug/kg	10	34	i	9/19/00	8260B	CJR	3 4 7
Chloro	íorm	< 10	ug/kg	4.1	14	1	9/19/00	8260B	CJR	1
Chloro	methane	< 10	ug/kg	10	35	l	9/19/00	8260B	CJR	1
Dibron	nochloromethane	< 10	ug/kg	9.1	30	1	9/19/00	8260B	CJR	1
1,2-Dic	chloroethane	< 10	ug/kg	3.8	13	ı	9/19/00	8260B	CJR	1
1,1-Dic	chloroethane	< 10	ug/kg	8.3	28	l	9/19/00	8260B	CJR	1
1,1-Dio	chloroethene	< 10	ug/kg	8.7	29	1	9/19/00	8260B	CJR	1
cis-1,2	-Dichloroethene	< 10	ug⁄kg	9.3	31	1	9/19/00	8260B	CJR	l
trans-l	,2-Dichloroethene	< 10	ug/kg	8.8	29	ı	9/19/00	8260B	CJR	I
1,2-Dio	chloropropane	< 10	ug/kg	8.8	29	1	9/19/00	8260B	CJR	1
trans-1	,3-Dichloropropene	< 10	ug/kg	8.7	29	1	9/19/00	8260B	CJR	1
cis-1,3	-Dichloropropene	< 10	ug/kg	7.6	25	1	9/19/00	8260B	CJR	l
Ethylbe	enzene	< 10	ug/kg	4.4	15	1	9/19/00	8260B	CJR	1
2-Hexa	mone	< 10	ug/kg	8.2	27	1	9/19/00	8260B	CJR	3 4 7
Methyl	l ethyl ketone	< 10	ug/kg	10	35	ı	9/19/00	8260B	CJR	2 3 4
Methyl	l isobutyl ketone	< 10	ug∕kg	8.6	29	ı	9/19/00	8260B	CJR	1
Methyl	lene chloride	< 10	ug/kg	9	30	1	9/19/00	8260B	CJR	4
Styrena	e	< 10	ug/kg	3.8	13	1	9/19/00	8260B	CJR	3 4 7
1,1,2,2	-Tetrachloroethane	< 10	ug/kg	5.2	17	1	9/19/00	8260B	CJR	4
Tetraci	hloroethene	< 10	ug/kg	6.6	22	1	9/19/00	8260B	CJR	i
Toluen	ne	< 10	ug/kg	7	23	1	9/19/00	8260B	CJR	1
1,1,1-7	Frichloroethane	< 10	ug/kg	10	33	1	9/19/00	8260B	CJR	1
1,1,2-7	Frichloroethane	< 10	ug/kg	9,3	31	1	9/19/00	8260B	CJR	1
Trichle	proethene	< 10	ug/kg	7.7	26	1	9/19/00	8260B	CJR	1
Vinyl (Chloride	< 10	ug/kg	10	34	١	9/19/00	8260B	CJR	1
m&p-2		< 20	ug/kg	9.3	31	1	9/19/00	8260B	CJR	1
o-Xyle	ene	< 10	ug/kg	7	23	1	9/19/00	8260B	CJR	1

MOR 000142

TOM BRECHEISEN PIONEER ENVIRONMENTAL 1000 NORTH HALSTED CHICAGO IL 60622

The Committee of the Co

Project #

00618

Project Name

MOREY CORP / 2659 WISCON

Invoice # E30692

Report Date 21-Sep-00

Analyte		Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
LOD Limit of Detection		"J" F	"J" Flag: Analyte detected between LOD and LOQ							
C	Code	Comment								
	1	All laboratory	QC requirem	ents were	met for t	his sa	mple.			
	2	The duplicate RPD failed to meet acceptable QC limits.								
	3	The spike recovery failed to meet acceptable QC limits.								
	4	The check sta	indard failed	to meet ac	ceptable	QC lir	mits.			
	7	The LCS spike	e recovery fa	iled to mee	t accept	able C	C limits.			
4	41	Result confirm	ned by repea	t analysis.						
•	61	Analysis perfo	ormed by sub	contract la	ıb.					

Authorized Signature

CHAIN CHOUSTODY RECORD



A lytical Lab

1090 Kennedy Ave. • Kimoerly, WI 54136 (920) 735-8295 • FAX 920-739-1738 • 800-490-4902 LAB@USOIL.COM

Chain # 2 2

20990

ev. Date: 12-17-98

Account No. :	Quote No.:			LAD & COOL					1	Page		01	-	
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Project (Name / Location): N	Novey Con	porulien /	2659	Wishingi	и				An	alys	s Rec	questec	d	
Reports To: Tom Brech	reisen Invo	pice To: Tom Br	echeisen		Sample Handling							Oth	er An	alysis
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CHAIN OF CUSTODY RECORD		ical Lab	•				te: 12-17-9
Lab J.D. # 5030693#	1090 Kenne 1(920) 735-8;	dy Ave. • Kimberly, WI 541: ?95 • FAX 920-739-1738 •	36 800 -4 90-49	Ch:	ain# 🥰	2099	14
Account No.: Quote No.:	LAB@USO	L.COM		Pag	ge <u>3</u> of	3	
Project #: bub18	Sample Integrity ATO be comp	eted by receiving lab					
Sampler: (signature) Thomas A Brechery	Method of Shipnien Cooler seal inted upon receipt	TANYOS ET NO VA	Labcoded	By:		1 1	1/2
Project (Name / Location): The Morey Corporation	n/2659 Wisco	nsin St.			sis Reque	sted	
Reports To: Tom Brecheisen Invoice To:	,	Sample Handling				Other Ana	lysis
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City State Zip (hicago JL bol) City State Zip		Normal Turn Around	4 80%	8021) 8260) 413.1	8310		}
Phone (312) 587-1121 Phone			(Mod/TPH) (Mod/TPH) (EPA 802	(EPA	Point	} } }	
18 (1886) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of Containers Description* a and Type	Preservation	GRO (Mod/TPH) GRO (Mod/TPH) PVOC (EPA 8021) BTEX (EPA 8021)	VOC (EPA 8021) VOC (EPA 8260) O&G (EPA 413.1	PAH (EPA Pb Flash Point		PID/ FID
5030670 MB-10(4'.b') 8-24-00 141m				1			
N. B-10(18-12) 8-24-00 110ml	13/34/4/4			X			
B-11 (V-1) 8-29-00 1 41ml				y			
DB-12 (1'-6') 8-24-17 1 41 m OR B-13 (6'-8') 8-24-17 1 41 m OR B-14 (3'-6') 8-24-17 1 41 m	L; 1412. 5			1			
Q B-13 (6-8) 8-29-62 140m				X	_		
B-14 (3'-6') 8.29-10 41ml				(
	-)						
B-14 (1'-9') 8-29-07 LIIm	1: 1417. 5						
				لللا			
Department Use Only Comme	ints/ Special Instructions Fur	L Sample B-14(6-9') Water "DW" Waste Water	CAUL JUM "WW" Soil	Brecher "S" Air "A	-se ~ 7/19/0 A" etc	ic gam	
						14'-4')
ccepted By:	3: B-10(10-12); B-15(7-6	') P	-15 A -10	ני אינינינ <i>ו</i> א	ر (نه مالمدرور) (نه مالمدرور)	MICHAE	13.9/12k
			ed By: (sig				Date
isposition of unused portion of sample with							
ab Should: 15.2 (i)							
Dispose Garage Gays And Gibert Gays And Receive							
Receive Receive	ed in Laboratory By:	makhu	Time: 9	30	D	ate: 1/2/,	100

CHAIN L. CUSTODY RECORD



alytical Lab

house Dample Time: 9:30

21631

Rev. Date: 12-17-98

Chain # No 1090 Kennedy Ave. • Kimberly, WI 54136 Lab I.D. # 5030933 (920) 735-8295 • FAX 920-739-1738 • 800-490-4902 LAB@USOIL.COM Page ____ of ____ Account No.: Quote No.: Sample Integrity - To be completed by receiving lab.

Method of Shipment:

M. Mouse Herning Blank. COn Ice: 00618 Project #: Cooler seal intact upon receipt: _____Yes ____ No ____ Labcoded By: _____ Sampler: (signature) Project (Name / Location): **Analysis Requested** Reports Tayon Brecheisen Invoice To: Other Analysis Sample Handling Request Company 7) Rush Analysis Address Address GRO (Mod/TPH)
PVOC (EPA 8021)
BTEX (EPA 8021)
VOC (EPA 8221)
VOC (EPA 8260)
O&G (EPA 413.1)
PAH (EPA 8310)
Pb
Flash Point Date Required City State Zip City State Zip Normal Turn Around Phone Phone Lab I.D. No. of Containers Preservation Sample I.D. Collection Description* PID/ Size and Type FID Time Date 8/29/40 40 par none MOIL MOR 000147 Department Use Ohly Comments/ Special Instructions *Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", etc.

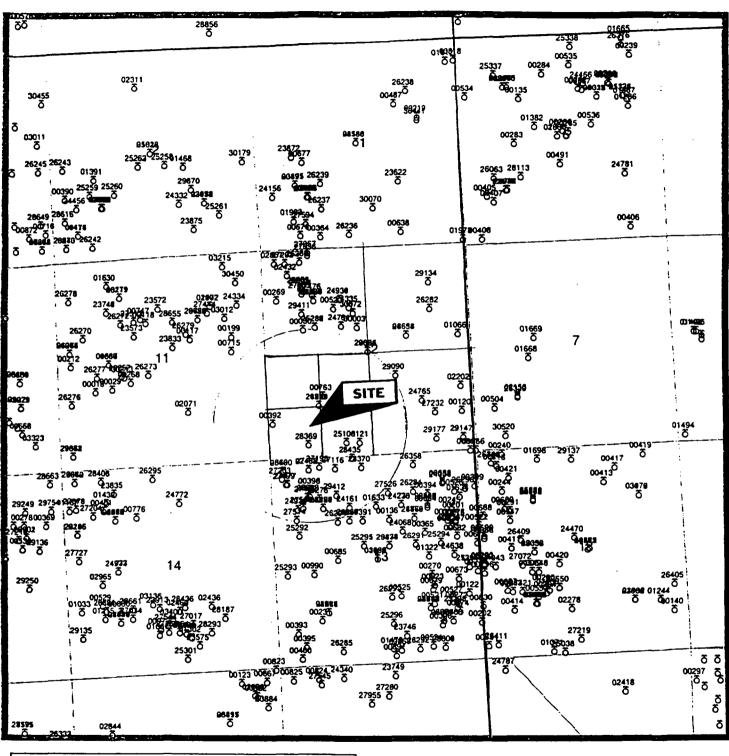
Run Toc per Dom B. 9/24/00 Jum Split Samples: Offered ? Yes at No. 3 Accepted? Yes No. Grerundy lab coded 5030692K Department Use Optional for Soil Samples Relinquished By: (sign) Received By: (sign) Time Date Disposition of Unused portion of sample Lab Should

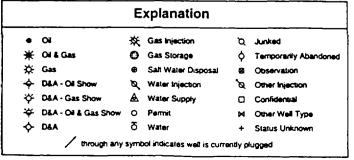
Received in Laboratory By: / M

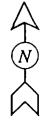
APPENDIX F

ISGS Well Search Results

Map Area: 38N-10E-22 m3 to 39N-11E-32 m3







	2421	4842 ft
	Illinois State Geological	Survey
C	QuEStoR: Custom	Мар
Dat	e:27-SEP-00 Scale: 1:290)52

Displayed data is based upon information supplied to the Minois State Geological Survey (ISGS) and are not field verified. The ISGS does not guarantee the validity, accuracy or completeness of these data.

permit: 92-1752

QuEStoR Data Extraction

DB: volcano

Non Oil and Gas - Wells

```
Randa Wm J
120430012000
                                                                   12-38N-10E
                    Andrejewski R
DuPage
                                         NE SE SE
                                                        Elev: 715GL
Status: WATER
permit: 0 permit date:
Lambert X: 3398140 Lambert Y: 3190644
producing formation: td forma
                                                       comp. date: 01/01/57
                                                         td: 126
                                      td formation:
latitude: 41.789736
                              longitude: 88.033706
120432865800
                  Fykes, Charles N.
                                                                  12-38N-10E
                    Bakosh, Michael
DuPage
                                         SE SW NE
Status: WATER
                                                         Elev:
permit: 013317 permit date: 07/26/89
Lambert X: 3396728 Lambert Y: 3192556
                                                       comp. date: 08/09/89
                                                        td: 200
producing formation: td formation: latitude: 41.795070 longitude: 88.038770
Water from limestone at depth 102 to 200 ft.
Screen: Diam. in. Length: 0 ft.
                                               Slot:
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                              From(ft)
                                                           To(ft)
                        A53 15#
                                                               102
Size hole below casing: 5 in.
Static level 80 ft. below casing top which is 1 ft. above grnd Pumping level 100 ft. when pumping at 0 gpm for 1 hours.
                                                           1 ft. above grnd level.
Formations Passed Through
                                                Thickness Bottom
  clay
                                                   30
                                                              30
  gravel
                                                   70
                                                              100
  limestone
                                                  100
                                                             200
120432914700
                   Weirich, William Theodore
                                                                  12-38N-10E
DuPage
                    Barbour, Christopher
Status: WATER
                                         SE SE SE
                                                       Elev:
permit: 91-1503 permit date: 08/06/91
Lambert X: 3398174 Lambert Y: 3189986
producing formation: td formatio
                                                       comp. date: 11/05/91
                                                        td: 200
                                       td formation:
latitude: 41.787923
                             longitude: 88.033597
Water from rock at depth 120 to 200 ft.
Screen: Diam. in. Length: 0 ft.
                                              Slot:
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                              From(ft)
                                                           To(ft)
                       PVC 200 PSI
        5
Size hole below casing: 4.75 in.
Static level 80 ft. below casing top which is 1 ft. above grnd Pumping level 110 ft. when pumping at 0 gpm for 3 hours.
                                                          1 ft. above grnd level.
Formations Passed Through
                                                Thickness Bottom.
  top soil
                                                   1
                                                              1
  clay
                                                   49
                                                               50
  sand & gravel
                                                  35
                                                              85
  rock
                                                 115
                                                             200
120430220200
                   K & K Well Drilling
                                                                  12-38N-10E
                     Bozynski
Status: WATER
                                        SE NE SE
                                                       Elev:
permit: 0
producing formation: Lambert Y: 3191301 latitude: 41.791551
                        permit date:
                                                      comp. date: 09/01/71
                                                        td: 150
                          td formation.
longitude: 88.033784
120432941100
                     Fykes, Charles N.
                                                                  12-38N-10E
DuPage
                     Broder & Fordhan (Brickey)
Status: WATER
                                                       Elev:
                                        NE SW NW
```

permit date: 02/05/93

:

comp. date: 02/05/93

```
Lambert X: 3394077 Lambert Y: 3193098 producing formation: td formation: latitude: 41.796681 longitude: 88.048500
                                                        td: 145
                                     td formation:
Water from limestone at depth 98 to 145 ft. Screen: Diam. in. Length: 0 ft. Slot:
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                                          To(ft)
                                           From(ft)
                       A-53 15#
Size hole below casing: 5 in.
Static level 60 ft. below casing top which is
                                                          1 ft. above grnd level.
                  90 ft. when pumping at 0 gpm for 1 hours.
Pumping level
                                               Thickness Bottom
Formations Passed Through
                                                          25
                                                 25
                                                  5
                                                             30
  sand & clay
                                                             65
  clay
                                                 35
  gravel
                                                 30
                                                             95
                                                  50
  limestone
                                                            145
120432836900
                   Fykes, Charles N.
                                                                12-38N-10E
                   Carlsen, Penny
DuPage
SE SW SW permit date: 11/30/88 Lambert X: 3394230 Lambert V 2007
                                        SE SW SW
                                                       Elev:
                                                      comp. date: 04/11/89
                                                       td: 205
producing formation:
                                       td formation:
latitude: 41.787566
                              longitude: 88.048131
Water from limestone at depth 110 to 205 ft.
                                  0 ft.
Screen: Diam. in. Length:
                                             Slot:
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight From(ft)
                                                          To(ft)
                       A53 15#
                                                                110
Size hole below casing: 5 in.
Static level 40 ft. below casing top which is 1 ft. above grnd Pumping level 80 ft. when pumping at 0 gpm for 1 hours.
                                                         1 ft. above grnd level.
Formations Passed Through
                                               Thickness Bottom
                                                          2
  top soil
                                                 2
  clay
                                                 20
                                                             22
  boulders
                                                 88
                                                            110
  lime
                                                 95
                                                            205
                                                                12-38N-10E
120432786100
                  Fykes, Charles N.
                   Carter, Robert
                                                       Elev:
Status: WATER
                                        SE NW NW
                    permit date: 07/13/87
Lambert Y: 3193759
permit: 133393
                                                      comp. date: 07/24/87
Lambert X: 3394046
                                                        td: 185
producing formation:
                                       td formation:
latitude: 41.798504
                               longitude: 88.048576
Water from limestone at depth 106 to 185 ft.
                                             Slot: 0
Screen: Diam. 0 in. Length:
                                  0 ft.
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                             From(ft)
                                                          To(ft)
        5
                       A-53 15#
                                                              106
Size hole below casing: 5 in.

Static level 70 ft. below casing top which is 1 ft. above grnd Pumping level 100 ft. when pumping at 28 gpm for 1 hours.
                                                          1 ft. above grnd level.
Formations Passed Through
                                               Thickness Bottom
  top soil
                                                           4
                                                  4
                                                             18
  clay
                                                  14
  blue clay
                                                 59
                                                             77
  gravel & sand
                                                  25
                                                            102
                                                  4
  broken lime
                                                            106
  limestone
                                                 79
                                                            185
120432635700
                                                                 12-38N-10E
                   Fykes, Charles N.
                    Dalu, Chirs
DuPage
                                                          1
Status: WATER
                                       NE NW NW
                                                       Elev:
permit: 115062
                       permit date: 09/28/84
                                                      comp. date: 10/01/84
Lambert X: 3394015
                                                        td: 175
                        Lambert Y: 3194420
```

```
producing formation: td formation: latitude: 41.800327 longitude: 88.048651
Water from limestone at depth 115 to
                                          175 ft.
                                 0 ft.
Screen: Diam. 0 in. Length:
                                           Slot: 0
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                         From(ft)
                                                      To(ft)
                       A-53 15#
                                                            117
Size hole below casing: 5 in.
Static level 100 ft. below casing top which is
                                                      1 ft. above grnd level.
Pumping level 120 ft. when pumping at 10 gpm for
                                                              1 hours.
Formations Passed Through
                                            Thickness Bottom
  clay
                                              35
                                                        35
                                              80
  gravel
                                                        115
  limestone
                                              60
                                                        175
120430076300
                  Neely Cliff L
                                                            12-38N-10E
                                                       10
DuPage
                  Downers Grove
Status: WATER 1540 SL 1440 WL
                                                      Elev:
                                                              715GL
                    permit date:
permit: 0
                                                  comp. date: 10/01/60
Lambert X: 3394627
                       Lambert Y: 3191021
                                                    td: 280
producing formation:
                                    td formation:
latitude: 41.790933
                            longitude: 88.046597
120430003000
                Miller, J. P. Art. Well
                                                            12-38N-10E
                  Downers Grove San 10
DuPage
Status: WATER
                3250 SL 1000 WL
                                                     Elev:
                                                              695GL
permit: 0
                    permit date:
                                                  comp. date: 01/01/56
Lambert X: 3394110 Lambert Y: 3192706 producing formation: td formation: latitude: 41.795599 longitude: 88.048402
                                                   td: 150
120432705600
                 Fykes, Charles
                                                            12-38N-10E
DuPage
                  Erickson, Don
               155 NL 1180 WL
Status: WATER
                                                      Elev:
                                                              728GL
permit: 118234 permit date: 06/07/85
Lambert X: 3394204 Lambert Y: 3194604
                                                 comp. date: 06/11/85
                      Lambert Y: 3194604
                                                   td: 185
producing formation:
                                    td formation:
latitude: 41.800826
                            longitude: 88.047944
Water from limestone at depth 110 to 185 ft.
Screen: Diam. 0 in. Length:
                                0 ft.
                                          Slot: 0
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                          From(ft)
                                                      To(ft)
                      A-53 15 LB
                                                           112
Size hole below casing: 5 in.
Static level 70 ft. below casing top which is Pumping level 100 ft. when pumping at 10
                                                      1 ft. above grnd level.
                                            10 gpm for 1 hours.
Formations Passed Through
                                            Thickness Bottom
  clay
                                              30
                                                       30
  gravel & sand
                                                       110
                                              80
  limestone
                                              75
                                                       185
120432705700
                  Fykes, Charles
                                                            12-38N-10E
                  Erickson, Don
DuPage
                110 NL 1200 WL
Status: WATER
                                                     Elev:
                                                              729GL
                  permit date: 06/07/85
permit: 118235
                                                  comp. date: 06/12/85
                     Lambert Y: 3194650
Lambert X: 3394222
                                                   td: 140
producing formation:
                                    td formation:
latitude: 41.800952
                           longitude: 88.047875
Water from limestone at depth 135 to 145 ft.
Screen: Diam. 0 in. Length:
                                0 ft.
                                        Slot: 0
Casing and Liner Pipe -
    Diam. (in.)
                  Kind and Weight
                                         From(ft)
                                                      To(ft)
                      A-53 15 LB
                                                           114
Size hole below casing: 5 in.
Static level 70 ft. below casing top which is
                                                      1 ft. above grnd level.
Pumping level 100 ft. when pumping at 10 gpm for
                                                             1 hours.
```

```
Formations Passed Through
                                          Thickness Bottom
                                            25
                                                     25
  clay
                                            85
                                                     110
  gravel & sand
                                            2
                                                     112
  limestone
                                                     118
  gravel
                                            2
                                                     120
  limestone
                                            5
                                                     125
  gravel
                                            10
  limestone
                                                     135
                                            10
  gravel & limestone
                                                         12-38N-10E
120432628000
                 Fykes, Charles N.
                  Erickson, Don
DuPage
                                   NE NW NW
                                                 Elev:
Status: WATER
                    permit date: 08/15/79
                                               comp. date: 09/04/79
permit: 88726
                    Lambert Y: 3194420
Lambert X: 3394015
                                                 td: 175
                                  td formation:
producing formation:
latitude: 41.800327
                           longitude: 88.048651
Water from limestone at depth 105 to 175 ft.
                                        Slot: 0
Screen: Diam. 0 in. Length: 0 ft.
Casing and Liner Pipe -
    Diam. (in.) Kind and Weight
                                                   To(ft)
                                       From(ft)
                                                        109
                    A-53 15#
Size hole below casing: 5 in.
Static level 70 ft. below casing top which is
                                                   1 ft. above grnd level.
                                            12 gpm for 1 hours.
               90 ft. when pumping at
Pumping level
Formations Passed Through
                                          Thickness Bottom
                                            30
                                                     30
  clay
                                            75
                                                     105
  gravel
                                            70
                                                     175
  limestone
                                                         12-38N-10E
120430052000
                Beyreis, Kenneth
                 Fielder Helen
                                                    10
DuPage
Status: WATER
                 1560 NL 1810 WL
                                                   Elev:
                  permit date:
                                               comp. date: 01/01/59
permit: 0
                    Lambert Y: 3193229
                                                 td:
Lambert X: 3394897
                                                      85
producing formation:
                                  td formation:
latitude: 41.797006
                           longitude: 88.045473
120432906600
                                                         12-38N-10E
                 Senffner, Alan James
                 Five Star General Contr., Inc.
DuPage
Status: WATER
                                                 Elev:
                                               comp. date: 04/26/90
producing formation: latitude: Al 700000
permit: 90-0308
                     permit date: 01/30/90
                                                 td: 145
                                  td formation:
                          longitude: 88.042349
Water from limestone at depth 0 to 145 ft.
                                0 ft.
                                         Slot:
Screen: Diam. 5 in. Length:
Casing and Liner Pipe -
                                                   To(ft)
    Diam. (in.) Kind and Weight
                                        From(ft)
                    STEEL 14.98
Size hole below casing: in.
Static level 0 ft. below casing top which is
                                                   1 ft. above grnd level.
                40 ft. when pumping at
                                          0 gpm for 2 hours.
Pumping level
Formations Passed Through
                                          Thickness Bottom
  drift
                                                      75
                                            75
                                            70
  limestone
                                                     145
120432865900
                 Senffner, Alan James
                                                         12-38N-10E
DuPage
                 Five Star General Contractors
Status: WATER
                                   SE NW NW
                                                 Elev:
                    permit date: 03/26/90
                                                comp. date: 04/26/90
permit: 017277
Lambert X: 3394046
                     Lambert Y: 3193759
                                                 td: 145
producing formation:
                                  td formation:
latitude: 41.798504
                           longitude: 88.048576
Water from limestone at depth 145 to 0 ft.
Screen: Diam. in. Length:
                              0 ft.
                                         Slot:
```

MOR 000154

```
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                         From(ft)
                                                     To(ft)
                     STEEL 14.98
Size hole below casing: in.
Static level 0 ft. below casing top which is
                                                     1 ft. above grnd level.
                 40 ft. when pumping at 0 gpm for 2 hours.
Pumping level
Formations Passed Through
                                            Thickness Bottom
                                             75
  drift
                                              70
  limestone
                                                       145
120432723200
                 Fykes, Charles
                                                           12-38N-10E
                                                      1
                  Gabdert, Robert
                                    NW SE SE
                                                   Elev:
Status: WATER
                     permit date: 10/25/85
permit: 121174
                                                 comp. date: 10/25/85
                     Lambert Y: 3190612
Lambert X: 3397483
                                                   td: 205
producing formation:
latitude: 41.789679
                                   td formation:
                            longitude: 88.036105
Water from limestone at depth 95 to
                                       205 ft.
                                0 ft.
Screen: Diam. 0 in. Length:
                                          Slot: 0
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                         From(ft)
                                                     To(ft)
                                                          100
       5
                      A-53 15 LB
Size hole below casing: 5 in.
Static level 103 ft. below casing top which is Pumping level 130 ft. when pumping at 10
                                                     1 ft. above grnd level.
                                             10 gpm for
                                           Thickness Bottom
Formations Passed Through
                                             35
                                                       35
  clay
 gravel
                                             15
                                                        50
                                             15
                                                        65
 clay
                                             30
                                                        95
  gravel
  limestone
                                            110
                                                       205
                                                           12-38N-10E
120430286700
                  Lockport Well & Pump
                  Gallagher Thomas
DuPage
Status: WATER
                                    NW NW NW
                                                   Elev:
                                                 comp. date: 06/01/72
permit: 0
                     permit date:
Lambert X: 3393361
                     Lambert Y: 3194392
                                                   td: 160
producing formation:
                                   td formation:
latitude: 41.800279
                            longitude: 88.051061
                                                           12-38N-10E
120432433500
                  Sission, Edward H.
DuPage
                  Geralds Paul
Status: WATER
                220 NL 240 WL
                                      NE SE NW
                                                    Elev:
                                                 comp. date: 12/01/75
permit: 0
                     permit date:
Lambert X: 3395292
                     Lambert Y: 3193263
                                                   td: 150
producing formation:
                                   td formation:
latitude: 41.797082
                            longitude: 88.044016
120432747600
                                                           12-38N-10E
                 Knierim, Phillip E.
DuPage
                  Heritage Homes
Status: WATER
                1175 NL 1270 WL
                                                     Elev:
                                                             717GL
                   permit date: 08/29/86
permit: 126455
                                                 comp. date: 12/04/86
Lambert X: 3394340
                     Lambert Y: 3193590
                                                   td: 140
                                   td formation:
producing formation:
latitude: 41.798025
                            longitude: 88.047503
Water from rock at depth 100 to 140 ft.
Screen: Diam. 0 in. Length: 0 ft.
                                          Slot: 0
Casing and Liner Pipe -
    Diam. (in.)
                    Kind and Weight
                                                     To(ft)
                                         From(ft)
                      BLACK 15 LB
Size hole below casing: 4.75 in.
Static level 70 ft. below casing top which is
                                                     1 ft. above grnd level.
              95 ft. when pumping at
Pumping level
                                            12 gpm for 3 hours.
Formations Passed Through
                                           Thickness Bottom
  clay
                                             88
                                                       88
  sand gravel
                                             12
                                                       100
```

MOR 000155

rock 40 140

```
120432476400
                  K & K Well Drilling
                                                           12-38N-10E
                  Hinkle & Wes
DuPage
Status: WATER
                                    SE NW
                                                   Elev:
                     permit date:
                                                 comp. date: 10/01/76
permit: 0
                                                   td: 120
                        Lambert Y: 3192812
Lambert X: 3395073
producing formation:
                                   td formation:
latitude: 41.795849
                            longitude: 88.044849
120432720200
                  Fykes, Charles
                                                           12-38N-10E
DuPage
                  Hogen, Gertrude
                                                      1
Status: WATER
                  350 NL 600 WL
                                                     Elev:
                                                             736GL
                    permit date: 10/07/85
permit: 120751
                                                 comp. date: 10/08/85
Lambert X: 3393634
                        Lambert Y: 3194385
                                                   td: 185
                                   td formation:
producing formation:
latitude: 41.800247
                            longitude: 88.050056
                                       185 ft.
Water from limestone at depth 112 to
                               0 ft.
                                          Slot: 0
Screen: Diam. 0 in. Length:
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                         From(ft)
                                                     To(ft)
                      A-53 15 LB
                                                          115
Size hole below casing: 5 in.
                                                     1 ft. above grnd level.
Static level 65 ft. below casing top which is
Pumping level
                95 ft. when pumping at
                                             10 gpm for
                                                             1 hours.
Formations Passed Through
                                           Thickness Bottom
                                                         2
  top soil
                                              2
                                             58
                                                        60
  clay
                                                        75
  sand
                                             15
                                             30
                                                       105
  clay
                                              7
                                                       112
  gravel
                                             73
                                                       185
  limestone
120430163100
                  Dist Highway Office
                                                           12-38N-10E
                  Hwy C B & Q Rr
                                                      55
DuPage
Status: ENG
                                    SE SW NE
                                                   Elev:
                                                           711GL
                                                 comp. date: 06/01/47
permit: 0
                     permit date:
Lambert X: 3396726
                     Lambert Y: 3192556
                                                   td:
                                                          55
producing formation:
                                   td formation:
latitude: 41.795070
                            longitude: 88.038777
120432476500
                                                           12-38N-10E
                  K & K Well Drilling
DuPage
                  James Constr
Status: WATER
                                                   Elev:
                                                 comp. date: 10/01/76
permit: 0
                     permit date:
Lambert X: 3397134
                     Lambert Y: 3190925
                                                   td: 160
producing formation: latitude: 41.790557
                                   td formation:
                            longitude: 88.037371
120432628100
                                                           12-38N-10E
                  Rob, Ronald Gene
DuPage
                  Johnson, Louise
Status: WATER
                                                   Elev:
permit: 103033
                     permit date: 04/08/82
                                                 comp. date: 04/20/82
Lambert X: 3394513
                      Lambert Y: 3190800
                                                   td: 190
producing formation:
                                   td formation:
latitude: 41.790329
                            longitude: 88.047030
Water from limestone at depth 0 to
                                          0 ft.
Screen: Diam. 0 in. Length:
                                 0 ft.
                                         Slot: 0
Casing and Liner Pipe -
     Diam. (in.)
                    Kind and Weight .
                                                     To(ft)
                                         From(ft)
                                                          110
                      BLACK STEEL 14.98
Size hole below casing: 5 in.
Static level 0 ft. below casing top which is
                                                     0 ft. above grnd level.
Pumping level
                  0 ft. when pumping at
                                                         0 hours.
                                             0 gpm for
Formations Passed Through
                                           Thickness Bottom
```

clay & gravel limestone		110 80	110 190	
120432463600 DuPage Status: WATER permit: 0 Lambert X: 3394388 producing formatio latitude: 41.79761	n:	NW	12-38N- Elev: 0 comp. date: 07/01 td: 90	
120432510500 DuPage Status: WATER permit: 0 Lambert X: 3394388 producing formatio latitude: 41.79761	n:	NW	12-38N-1 Elev: 0 comp. date: 05/01/ td: 100	
120432510400 DuPage Status: WATER permit: 0 Lambert X: 3394388 producing formatio latitude: 41.79761	n: t	NW	12-38N-1 Elev: 0 comp. date: 05/01/ td: 100	
120432476600 DuPage Status: WATER permit: 0 Lambert X: 3394388 producing formation latitude: 41.79761	n: t	NW	12-38N-1 Elev: 0 comp. date: 10/01/ td: 100	
120432502800 DuPage Status: WATER permit: 0 Lambert X: 3394388 producing formatio latitude: 41.79761		NW	12-38N-1 Elev: 0 comp. date: 04/01/ td: 100	
Lambert X: 3396450 producing formatio latitude: 41.79231 Water from limesto Screen: Diam. in Casing and Liner P Diam. (in.) 5 Size hole below ca Static level 70	8 longitud ne at depth 102 t . Length: 0 f ipe - Kind and Weight A-53 15# sing: 5 in. ft. below casing t	3191553 td formation: de: 88.039853 to 185 ft. ft. Slot:	0 102	91
Fumping level Formations Passed clay gravel limestone	90 ft. when pumping Through		pm for 1 hour ess Bottom 50 102 185	s.

MOR 000157

120432859900 Rob, Ronald Gene 12-38N-10E DuPage Kolar, Jim Status: WATER SW Elev: 0 comp. date: 12/06/83 permit: 110338 permit date: 11/09/83 Lambert X: 3394513 Lambert Y: 3190800 td: 175 producing formation: td formation: latitude: 41.790329 longitude: 88.047030 Water from limestone at depth 0 to 0 ft. 0 ft. Slot: 0 Screen: Diam. 0 in. Length: Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) BLACK STEEL 102 Size hole below casing: 5 in. Static level 100 ft. below casing top which is Pumping level 120 ft. when pumping at 10 1 ft. above grnd level. 10 gpm for 4 hours. Thickness Bottom Formations Passed Through 80 80 surface & clay 22 102 sand & gravel 73 175 limestone 120432362400 12-38N-10E Dupage Pump DuPage Kyzyzowski Greg Status: WATER Elev: comp. date: 02/01/74 permit: 0 permit date: Lambert Y: 3192182 Lambert X: 3395760 td: 205 td formation: producing formation: latitude: 41.794082 longitude: 88.042356 120432493000 K & K Well Drilling 12-38N-10E Lamb J K DuPage Status: WATER E2 NW Elev: comp. date: 02/01/77 permit: 0 permit date: Lambert Y: 3193472 Lambert X: 3395042 td: 110 producing formation: td formation: latitude: 41.797669 longitude: 88.044924 120432493100 K & K Well Drilling 12-38N-10E DuPage Lamb J K Status: WATER Elev: E2 NW permit: 0 permit date: comp. date: 01/01/77 Lambert X: 3395042 Lambert Y: 3193472 td: 100 producing formation: td formation: latitude: 41.797669 longitude: 88.044924 120432510600 12-38N-10E Dupage Pump DuPage M & S Constr Status: WATER S2 SE SW Elev: comp. date: 06/01/77 permit: 0 permit date: Lambert X: 3395214 Lambert Y: 3189841 td: 160 producing formation: td formation: latitude: 41.787655 longitude: 88.044505 120432628200 Fykes, Charles N. 12-38N-10E DuPage McCann, Susan 3 Status: WATER Elev: NW SE NE permit: 38503 comp. date: 07/02/75 permit date: 06/13/75 Lambert X: 3397350 Lambert Y: 3193244 td: 185 producing formation: td formation: latitude: 41.796939 longitude: 88.036438 Water from limestone at depth 126 to 185 ft. Screen: Diam. 0 in. Length: 0 ft. Slot: 0 Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) 5 126 A-53 15# Size hole below casing: 5 in.

MOR 000158

```
Static level 90 ft. below casing top which is 1 ft. above grnd level. Pumping level 100 ft. when pumping at 12 gpm for 1 hours.
                                                                                                                   Thickness Bottom
  Formations Passed Through
                                                                                                                         40
                                                                                                                                                     40
      clay
                                                                                                                         30
                                                                                                                                                     70
      gravel
                                                                                                                         20
      shale
                                                                                                                                                   90
                                                                                                                         36
                                                                                                                                                  126
      broken limestone
                                                                                                                         59
      limestone
  120430332400 K & K Well Drilling
                                                                                                                                                             12-38N-10E
                                                 McCarroll
 DuPage
                                                                                                                                     Elev:
 Status: WATER
                                                                                                NW
 Lambert X: 3394388 Lambert Y
                                                                                                                               comp. date: 08/01/73
                                                        Lambert Y: 3193443
                                                                                                                                     td: 140
 producing formation:
                                                                                             td formation:
 latitude: 41.797618 longitude: 88.047335
 120432706500 Knierim, Phillip E. 
DuPage Myers, Steve
                                                                                                                                                             12-38N-10E
DuPage Myers, Steve
Status: WATER 1130 NL 1010 WL
permit: 118362 permit date: 06/14/85
Lambert X: 3394079 Lambert Y: 3193624
producing formation: td formation:
latitude: 41.798131 longitude: 88.048462
Water from rock at depth 103 to 140 ft.
Screen: Diam 0 in Length: 0 ft Slot: 6
                                                                                                                                          Elev:
                                                                                                                                                                  720GT.
                                                                                                                               comp. date: 07/01/85
                                                                                                                                    td: 140
 Screen: Diam. 0 in. Length: 0 ft. Slot: 0
 Casing and Liner Pipe -
             Diam. (in.) Kind and Weight From(ft) To(ft)
                                                        BLACK 15 LB
 Size hole below casing: 4.75 in.
 Static level 60 ft. below casing top which is 1 ft. above grnd level. Pumping level 70 ft. when pumping at 10 gpm for 4 hours.
 Formations Passed Through
                                                                                                                   Thickness Bottom
                                                                                                                        95
                                                                                                                                                 95
      sand gravel
                                                                                                                          8
                                                                                                                                                  103
                                                                                                                       37
                                                                                                                                               140
     rock
L20432706400 Knierim, Phillip E.

DuPage Myers, Steve

Status: WATER 1075 NL 1030 WL

permit: 118363 permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit decided to the permit de
                                                                                                                                                            12-38N-10E
permit: 118363 permit date: 06/14/85 comp. date: 07/01/85 Lambert X: 3394096 Lambert Y: 3193680 td: 140 producing formation: td formation: latitude: 41.798284 longitude: 88.048396 Water from rock at depth 0 to 0 ft. Screen: Diam. 0 in. Length: 0 ft Claim and Lines P/
 Casing and Liner Pipe -
             Diam. (in.) Kind and Weight From(ft)
                                                                                                                                       To(ft)
                     5
                                                         BLACK 15 LB
 Size hole below casing: 4.75 in.

Static level 80 ft. below casing top which is 1 ft. above grnd Pumping level 90 ft. when pumping at 10 gpm for 4 hours.
                                                                                                                                         1 ft. above grnd level.
 Formations Passed Through
                                                                                                                   Thickness Bottom
      clay
                                                                                                                       98
                                                                                                                                                98
      sand gravel
                                                                                                                         5
                                                                                                                                                  103
      rock
                                                                                                                        37
                                                                                                                                                 140
 120432917700
                                              Knierim, Phil
                                                                                                                                                            12-38N-10E
 DuPage
                                                 Pacanowski, Theodore S.
 Status: WATER
                                                                                              SW SE SE
                                                                                                                                    Elev:
 permit: H920150 permit date: 06/03/92 comp. date: 06/05/92 Lambert X: 3397517 Lambert Y: 3189954 td: 240
producing formation: td formation: latitude: 41.787864 longitude: 88.036018 Water from rock at depth 140 to 240 ft.
 Screen: Diam. in. Length: 0 ft. Slot:
```

Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) BLACK Size hole below casing: in. Static level 100 ft. below casing top which is 1 ft. above grnd Pumping level 120 ft. when pumping at 0 gpm for 3 hours. 1 ft. above grnd level. Thickness Bottom Formations Passed Through deepened from 140 140 rock 100 240 120430220300 K & K Well Drilling 12-38N-10E DuPage Panos Geo Lambert X: 3394388 Lambert Y: 3193443 producing formation: latitude: 41 707666 Elev: comp. date: 09/01/71 td: 140 td formation: latitude: 41.797618 longitude: 88.047335 120432528200 K & K Well Drilling 12-38N-10E DuPage Parrish Const S2 NW Elev: Status: WATER comp. date: 09/01/77 permit date: permit: 0 Lambert Y: 3192782 Lambert X: 3394419 td: 115 producing formation: td formation: latitude: 41.795795 longitude: 88.047259 12-38N-10E 120432528300 K & K Well Drilling Parrish Const DuPage Elev: 0 Status: WATER S2 NW permit: 0 permit date:
Lambert X: 3394419 Lambert Y: 3192782
producing formation: td formation:
latitude: 41.795795 longitude: 88.047259 comp. date: 09/01/77 td: 110 12-38N-10E 120432528700 K & K Well Drilling DuPage Parrish Const Elev: 0 Status: WATER S2 NW Lambert X: 3394419 permit date: comp. date: 03/01/78 Lambert Y: 3192782 td: 120 td formation. longitude: 88.047259 producing formation: latitude: 41.795795 120432528600 K & K Well Drilling 12-38N-10E DuPage Parrish Const S2 NW permit date:
Lambert X: 3394419 Lambert Y: 3192782 producing formation: 1atitude: 41.795705 Elev: 0 comp. date: 10/01/77 td: 115 td formation: longitude: 88.047259 120432510900 12-38N-10E K & K Well Drilling DuPage Parrish Const Elev: 0 Status: WATER NW comp. date: 07/01/77 permit: 0 permit date:
Lambert X: 3394388 Lambert Y: 3193443 td: 120 producing formation: td formation: producing formation: td formation: latitude: 41.797618 longitude: 88.047335 120432510800 12-38N-10E K & K Well Drilling DuPage Parrish Const Status: WATER NW permit date: Elev: permit: 0 comp. date: 07/01/77 Lambert X: 3394388 td: 120 Lambert Y: 3193443

-10-

producing formation: td formation: latitude: 41.797618 longitude: 88.047335

120432510700 K & K Well Drilling 12-38N-10E

Parrish Const DuPage

Elev: Status: WATER 0 NW

Lambert X: 3394388 Lambert Y comp. date: 05/01/77

td: 115

producing formation: latitude: 41 707 (a) producing formation: td formation: latitude: 41.797618 longitude: 88.047335

120432528500 K & K Well Drilling 12-38N-10E

Parrish Const DuPage

Status: WATER S2 NW Elev:

permit date: comp. date: 10/01/77 permit: 0

Lambert Y: 3192782 Lambert X: 3394419 td: 115

producing formation: td formation:

latitude: 41.795795 longitude: 88.047259

120432528400 K & K Well Drilling 12-38N-10E

DuPage Parrish Const

Status: WATER S2 NW Elev: 0

Lambert X: 3394419 permit date: comp. date: 10/01/77

Lambert Y: 3192782 td: 115

producing formation: td formation: latitude: 41.795795 longitude: 88.047259

120430323700 K & K Well Drilling 12-38N-10E

Parrish Constr DuPage

Status: WATER Elev:

permit: 0 permit date: comp. date: 07/01/73

Lambert Y: 3193443 Lambert X: 3394388 td: 110

producing formation: td formation:

latitude: 41.797618 longitude: 88.047335

120430343300 K & K Well Drilling 12-38N-10E

DuPage Parrish Constr

Status: WATER NW Elev: n

comp. date: 10/01/73 permit: 0 permit date: Lambert X: 3394388

Lambert Y: 3193443 td: 130

producing formation: td formation:

producing formation: latitude: 41.797618 1 longitude: 88.047335

120430348900 K & K Well Drilling 12-38N-10E

DuPage Parrish Constr

Status: WATER NW Elev:

permit date: permit: 0 comp. date: 06/01/73

Lambert Y: 3193443 Lambert X: 3394388 td: 120

producing formation: td formation:

latitude: 41.797618 longitude: 88.047335

120430332600 K & K Well Drilling 12-38N-10E

DuPage Parrish Constr

Status: WATER NW Elev:

permit: 0 permit date: comp. date: 08/01/73

Lambert Y: 3193443 Lambert X: 3394388 td: 120

producing formation: td formation:

latitude: 41.797618 longitude: 88.047335

120430323800 K & K Well Drilling 12-38N-10E DuPage

Parrish Constr Status: WATER Elev: 0

-11-

permit: 0 permit date: comp. date: 07/01/73
Lambert X: 3394388 Lambert Y: 3193443 td: 110
producing formation: td formation: latitude: 41.797618 longitude: 88.047335

120430332500 K & K Well Drilling 12-38N-10E

DuPage Parrish Constr

Status: WATER Elev: 0

comp. date: 08/01/73

permit: 0 permit date: comp. date:
Lambert X: 3394388 Lambert Y: 3193443 td: 120
producing formation: td formation:
latitude: 41.797618 longitude: 88.047335

120430026900 Randa Wm J 12-38N-10E

DuPage Prucha

Status: WATER 1275 NL 375 WL Elev: 720GL

permit: 0 permit date: comp. date: 01/01/59

Lambert X: 3393451 Lambert Y: 3193453 td: 133

producing formation: td formation: latitude: 41.797687 longitude: 88.050785

120430012100 Randa Wm J 12-38N-10E

DuPage Reddinger

DuPage Status: WATER SE SE SW Elev: 730GL

comp. date: 01/01/57 td: 138

permit: 0 permit date:
Lambert X: 3395542 Lambert Y: 3189857
producing formation: td formation:
latitude: 41.787685 longitude: 88.043297

120432528800 K & K Well Drilling 12-38N-10E

Salansky DuPage

Elev:

S2 NW permit date:
Lambert X: 3394419 Lambert Producing form permit: U permit date: comp. date: 08/01/78
Lambert X: 3394419 Lambert Y: 3192782 td: 120
producing formation: td formation: latitude: 41.795795 longitude: 88.047259

12-38N-10E

12-30N 1 Elev: 0 120430000300 Miller, J. P. Art. Well DuPage Shafer Bearing DuPage Shafer Bearing
Status: WATER 2059 NL 2870 EL
permit: 0 permit date: c
Lambert X: 3395487 Lambert Y: 3192755
producing formation: td formation:
latitude: 41.795674 longitude: 88.043328

comp. date: 01/01/55

td: 250

12-38N-10E

Elev: 0

comp. date: 04/01/72

td: 150

120430243200 K & K Well Drilling
DuPage Sieg Joseph
Status: WATER NW NW
permit: 0 permit date:
Lambert X: 3393703 Lambert Y: 3194076
producing formation: td formation:
latitude: 41.799393 longitude: 88.049820

120432433600 K & K Well Drilling
DuPage Steinbauer John 12-38N-10E

Status: WATER Elev: SW

comp. date: 11/01/75

permit: 0 permit date: comp. date:
Lambert X: 3394511 Lambert Y: 3190800 td: 160
producing formation: td formation:
latitude: 41.790329 longitude: 88.047037

120432528900 K & K Well Drilling 12-38N-10E

```
Thatcher Guy
 DuPage
 Status: WATER
                                                               NW
                                                                             Elev: 0
                                                                                   comp. date: 10/01/78
 permit: 0 permit date:
Lambert X: 3394388 Lambert Y: 3193443
                                                                                        td: 140
                                                             td formation:
 producing formation:
 latitude: 41.797618 longitude: 88.047335
 120433007200 Dietzman, Gerald E.
DuPage Trison Builders, Inc.
                                                                                                       12-38N-10E
Status: WATER

permit: H960351

Lambert X: 3395386

producing formation:
latitude: 41.796783

Status: WATER

NE SE NW

comp. date: 04/04/97

td: 120

producing formation:
latitude: 41.796783

longitude: 88.043676

Water from grave rock of data.
 Water from gray rock at depth 95 to 120 ft. Screen: Diam. in. Length: 0 ft. Slot:
 Casing and Liner Pipe -
         Diam. (in.) Kind and Weight From(ft) To(ft)
5 PVC ASTM F480 SDR 21 0
 Size hole below casing: in.
 Static level 60 ft. below casing top which is 1 ft. above grnd level.

Pumping level 80 ft. when pumping at 10 gpm for 2 hours.
                                                                            Thickness Bottom
 Formations Passed Through
    topsoil
                                                                               3
    brown clay
                                                                                                 68
                                                                               14
   medium gravel
                                                                                                 82
                                                                               38 120
    gray rock
120432950100 Knierim, Phil 12-38N-10E

DuPage Trison Builders, Inc.

Status: WATER SE NW NW Elev: 0

permit: 94-0176 permit date: 12/23/93 comp. date: 04/23/94

Lambert X: 3394046 Lambert Y: 3193759 td: 160

producing formation: td formation: latitude: 41.798504 longitude: 88.048576

Water from rock at depth 107 to 160 ft.

Screen: Diam. in. Length: 0 ft. Slot:

Casing and Liner Pipe -
Casing and Liner Pipe -
Diam. (in.) Kind and Weight From(ft) To(ft)
5 PVC 200 PSI 0 1
Size hole below casing: 4.75 in.
                                                                                                     105
Static level 60 ft. below casing top which is 1 ft. above grnd Pumping level 70 ft. when pumping at 0 gpm for 2 hours.
                                                                                          1 ft. above grnd level.
Formations Passed Through
                                                                           Thickness Bottom
    clay
                                                                              91
                                                                                        91
    sand & gravel
                                                                               10
                                                                                               101
   rock
                                                                               59
                                                                                               160
120430039200 Neely, George
DuPage Tucker J
Status: WATER 900 SL 100 WL
permit: 0 permit date:
Lambert X: 3393319 Lambert Y: 3190316
producing formation: td formation:
latitude: 41.789048 longitude: 88.051455
                                                                                        33
Elev: 693GL
date: 01/01/
                                                                                                      12-38N-10E
                                                                              comp. date: 01/01/59
                                                                                      td: 85
120432913400 Fordonski, Keith
DuPage Tucker, T.J.
Status: WATER
                                                                                                      12-38N-10E
                                                              SW NE NE
                                                                                   Elev:
permit: 89-1416 permit date: 06/12/89 comp. date: 06/22/91
Lambert X: 3397317 Lambert Y: 3193902 td: 150
producing formation: td formation:
latitude: 41.798754 longitude: 88.036521
Water from limestone at depth 83 to 150 ft. Screen: Diam. in. Length: 0 ft. Slot:
```

Casing and Liner Pipe -

```
Diam. (in.)
                     Kind and Weight
                                          From(ft)
                                                      To(ft)
        5
                      BLACK STEEL
Size hole below casing: 5 in.
Static level 70 ft. below casing top which is 1 ft. a Pumping level 120 ft. when pumping at 0 gpm for
                                                      1 ft. above grnd level.
                                                              4 hours.
                                            Thickness Bottom
Formations Passed Through
                                              15
                                                         15
  gravel
                                              20
                                                         35
  clay
                                              48
                                                         83
  limestone
                                              67
                                                        150
120430106600
                  K & K Well Drilling
                                                            12-38N-10E
DuPage
                   Vaughn Seed Co
                                                    Elev:
Status: WATER
                                     SE SE NE
permit: 0
                      permit date:
                                                  comp. date: 03/01/68
                      Lambert Y: 3192615
Lambert X: 3398036
                                                    td: 250
producing formation:
                                    td formation:
latitude: 41.795175
                             longitude: 88.033949
120432529000
                 K & K Well Drilling
                                                            12-38N-10E
DuPage
                   Woodland Realty
Status: WATER
                                    NW
                                                    Elev:
                                                              n
permit: 0
                      permit date:
                                                  comp. date: 12/01/78
Lambert X: 3394388
                      Lambert Y: 3193443
                                                    td: 140
producing formation:
                      td formation: longitude: 88.047335
                                    td formation:
latitude: 41.797618
120430036700
                  Neely, George
                                                            13-38N-10E
DuPage
                  Hoffman W C
Status: WATER
                  20 NL 180 EL
                                      NE
                                                     Elev: 740GL
                    permit date:
                                                  comp. date: 01/01/59
permit: 0
Lambert X: 3398341
                      Lambert Y: 3189645
                                                    td: 172
                                    td formation:
producing formation:
latitude: 41.786901
                            longitude: 88.033166
120430036600
                   Neely, George
                                                            13-38N-10E
DuPage
                  Hoffman W C
Status: WATER
                  20 NL 25 EL
                                      NE
                                                      Elev:
                                                              740GL
                                                  comp. date: 01/01/59
permit: 0
                      permit date:
Lambert X: 3398495
                      Lambert Y: 3189653
                                                    td: 168
producing formation:
                                   td formation:
latitude: 41.786894
                            longitude: 88.032596
120432843500
                  Knierim, Phillip E.
                                                            13-38N-10E
                  Moroney, Mark
75 NL 2100 WL
DuPage
Status: WATER
                                                     Elev:
                                                              742GL
                     permit date: 03/01/84
                                                  comp. date: 08/16/84
permit: 111378
Lambert X: 3395358
                      Lambert Y: 3189442
                                                   td: 160
producing formation:
                                    td formation:
latitude: 41.786549
                            longitude: 88.043999
Water from rock at depth 110 to 160 ft.
Screen: Diam. 0 in. Length: 0 ft.
                                          Slot: 0
Casing and Liner Pipe -
     Diam. (in.)
                     Kind and Weight
                                          From(ft)
                                                      To(ft)
                       BLACK #15
                                                           110
Size hole below casing: 4.75 in.
Static level 80 ft. below casing top which is Pumping level 120 ft. when pumping at 10
                                                      1 ft. above grnd level.
                                            10 gpm for 2 hours.
Formations Passed Through
                                            Thickness Bottom
  top soil
                                                          4
                                               4
  clay
                                              81
                                                         85
  sand gravel
                                                        110
                                              25
  rock
                                                        160
                                              50
```

Non Oil and Gas - Wells

```
120432768400 Wellendorf, Rodney
DuPage Airhart Construction
Status: WATER NW Elev: 0 comp. date: 02/24/87 Lambert X: 3394629 Lambert Y: 3188153 td: 200 producing formation: td formation: latitude: 41.783029 longitude: 88.046759 Water from limestone at depth 0 to 0 fer
                                                                                                       13-38N-10E
 Water from limestone at depth 0 to 0 ft.
Screen: Diam. 0 in. Length: 0 ft. Slot: 0
 Casing and Liner Pipe -
         Diam. (in.) Kind and Weight From(ft)

5 BLACK STEEL 0
                                                                                             To(ft)
                                                                                              131
 Size hole below casing: 5 in.
Static level 85 ft. below casing top which is 1 ft. above grnd level. Pumping level 120 ft. when pumping at 10 gpm for 4 hours.
                                                                            Thickness Bottom
 Formations Passed Through
    shale
                                                                             105 105
    sand & shale
                                                                               26
                                                                                                131
                                                                               69 200
    limestone
120432837000 Lode, Lawrence James
DuPage Andermann, Daniel
Status: WATER
permit: 008034 permit date: 11/28/88 comp. date: 12/09/88
Lambert X: 3395574 Lambert Y: 3189196 td: 215
producing formation: td formation: latitude: 41.785862 longitude: 88.043218
Water from rock at depth 100 to 215 ft.
Screen: Diam. in. Length: 0 ft. Slot:
Casing and Liner Pipe -
Casing and Liner Pipe -
Diam. (in.) Kind and Weight From(ft) To(ft)
5 GALVANIZED A120 0 100

Size hole below casing: 4.75 in.

Static level 0 ft. below casing top which is 0 ft. above grnd Pumping level 0 ft. when pumping at 0 gpm for 0 hours.

Thickness Bottom
                                                                                          0 ft. above grnd level.
Formations Passed Through
                                                                            Thickness Bottom
    black dirt
                                                                               4
                                                                                            4
    yellowish clay
                                                                               12
                                                                                                16
    bluish clay
                                                                               15
                                                                                                  31
                                                                                                55
    sandy gravel
                                                                               24
    blue clay
                                                                              31
                                                                                                 86
                                                                                           92
100
215
                                                                             6
8
   bouldery gravel
   porous gravel
                                                                                              215
   rock
                                                                             115
120430013600 Randa Wm J
                                                                                                       13-38N-10E
DuPage
DuPage
Status: WATER
                              Andrzejewski Bros
NW SW NE permit date:
Lambert X: 3396282 Lambert Y: 3187901
producing formation:
latitude: 41 700166
                                                                                    Elev: 750GL
                                                                                   comp. date: 01/01/58
                                                                                       td: 163
                                                             td formation:
latitude: 41.782406 longitude: 88.040589
120432837100 Liberg, Patrick A.
DuPage Angderson, Charlston
                                                                                                     13-38N-10E
Status: WATER

permit: 007539

Lambert X: 3397689

producing formation:
latitude: 41.775061

Water from linearters at later 1201

Lambert X: 3397681

Lambert Y: 3185311

td: 175

td: 175

longitude: 88.035661
Water from limestone at depth 130 to 175 ft. Screen: Diam. in. Length: 0 ft. Slot:
```

```
Casing and Liner Pipe -
                                          From(ft)
     Diam. (in.) Kind and Weight
                                                      To(ft)
                      BLACK 15#/FT
                                                          130
Size hole below casing: 5 in.
Static level 130 ft. below casing top which is
                                                      1 ft. above grnd level.
              130 ft. when pumping at
                                            0 gpm for 2 hours.
Pumping level
Formations Passed Through
                                            Thickness Bottom
                                             130
  clay
                                                        130
  sand & gravel
                                               5
                                                        135
                                              40
                                                        175
  rock
120430247700
                  K & K Well Drilling
                                                            13-38N-10E
                   Balducci
DuPage
Status: WATER
                                     SW
                                                    Elev:
                      permit date:
permit: 0
                                                  comp. date: 04/01/72
Lambert X: 3394737
                       Lambert Y: 3185501
                                                    td: 160
producing formation:
                                    td formation:
latitude: 41.779429
                             longitude: 88.046342
120432786200
                  Fykes, Charles N.
                                                            13-38N-10E
DuPage
                                                       1
                   Bales, Steve
                                     SE NW NW
                                                              0
Status: WATER
                                                    Elev:
                      permit date: 07/15/87
permit: 133510
                                                  comp. date: 07/27/87
Lambert X: 3394287
                       Lambert Y: 3188468
                                                    td: 205
producing formation:
                                    td formation:
latitude: 41.783912
                             longitude: 88.047999
Water from limestone at depth 100 to
                                          205 ft.
                                           Slot: 0
Screen: Diam. 0 in. Length:
                                0 ft.
Casing and Liner Pipe -
    Diam. (in.)
                     Kind and Weight
                                          From(ft)
                                                      To(ft)
                                                           100
                      A-53 15#
       5
Size hole below casing: 5 in.
Static level 100 ft. below casing top which is Pumping level 140 ft. when pumping at 30
                                                      1 ft. above grnd level.
                                            30 gpm for 1 hours.
Formations Passed Through
                                            Thickness Bottom
  top soil
  clay
                                              23
                                                         27
                                              15
                                                         42
  gravel
 blue clay
                                              45
                                                         87
                                              13
                                                        100
  gravel
  limestone
                                             105
                                                        205
120430163300
                   Austin, Harry
                                                            13-38N-10E
DuPage
                   Baula Otto H
Status: WATER
                                     N2
                                                    Elev:
                      permit date:
permit: 0
                                                  comp. date:
Lambert X: 3395941
                      Lambert Y: 3188217
                                                    td: 141
producing formation:
                                    td formation:
latitude: 41.783338
                             longitude: 88.041773
                                                            13-38N-10E
120430298200
                  K & K Well Drilling
DuPage
                   Benet Realty
Status: WATER
                                     SE
                                                    Elev:
                      permit date:
                                                  comp. date: 09/01/72
permit: 0
Lambert X: 3397351
                        Lambert Y: 3185627
                                                    td: 160
producing formation:
                                    td formation:
latitude: 41.779573
                             longitude: 88.036941
120430301300
                   K & K Well Drilling
                                                            13-38N-10E
DuPage
                   Benet Realty
Status: WATER
                                     SE
                                                    Elev:
                                                  comp. date: 10/01/72
td: 160
permit: 0
                      permit date:
Lambert X: 3397351
                         Lambert Y: 3185627
producing formation:
                                    td formation:
latitude: 41.779573
                             longitude: 88.036941
```

120430027300 Perrine William 13-38N-10E DuPage Birkland Status: WATER 875 SL 600 EL NE Elev: 750GL permit: 0 permit date: comp. date: 01/01/59 Lambert Y: 3187862 Lambert X: 3397982 td: 170 producing formation: td formation: latitude: 41.782071 longitude: 88.034537 120432502900 Lockport Well & Pump 13-38N-10E DuPage Bonnsteel Rich 1 NW SE SE Status: WATER Elev: permit: 0 permit date: comp. date: 12/01/76 Lambert Y: 3185311 Lambert X: 3397689 td: 185 producing formation: td formation: latitude: 41.777772 longitude: 88.035720 120430163400 Austin, Harry 13-38N-10E DuPage Boughton Wm 4125 SL 500 EL Status: WATER Elev: 750GL producing formation: latitude: 41 700778 permit: 0 permit date: comp. date: 01/01/46 td: 141 td formation: latitude: 41.783708 longitude: 88.034230 120432823200 Senffner, Alan James 13-38N-10E DuPage Brazys, Matthew SE SW SE
Lambert X: 3397061

producing for Status: WATER SE SW SE Elev: comp. date: 08/12/88 td: 190 producing formation: latitude: 41.773174 td formation: longitude: 88.038014 Water from limestone at depth 0 to Screen: Diam. in Length: 0 ft. 0 ft. Slot: Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) STEEL 14.98 120 Size hole below casing: 5 in. Static level 0 ft. below casing top which is 1 ft. at Pumping level 90 ft. when pumping at 10 gpm for 1 ft. above grnd level. 2 hours. Formations Passed Through Thickness Bottom drift 120 120 limestone 70 190 120430039500 Perrine William 13-38N-10E DuPage Brewer John E Status: WATER 475 SL 725 WL 750GL Elev: permit date: permit: 0 comp. date: 01/01/59 producing formation: latitude: 41 3394191 Lambert Y: 3184622 td: 175 td formation: latitude: 41.773319 longitude: 88.048498 120432628300 Weirich, William Theodore 13-38N-10E Brewer, Scott DuPage Status: WATER NW SE SE Elev: 0 comp. date: 10/29/82 td: 171 producing formation: td formation: latitude: 41.775061 longitude: 88.035661 Water from limestone at depth 0 to 0 ft. Screen: Diam. 0 in. Length: 0 ft. Slot: 0 Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) Size hole below casing: 0 in.

-3-

Static level 0 ft. below casing top which is 0 ft. above grnd level. Pumping level 0 ft. when pumping at 0 gpm for 0 hours. Thickness Bottom Formations Passed Through 128 128 drift yellow limestone 43 Beyreis, Kenneth 13-38N-10E 120430052200 Briarcliff Corp 13 Status: WATER 1960 NL 50 EL
permit: 0 permit date:
Lambert X: 3398537 Lambert Y: 3187715
producing formation: td formatio DuPage Elev: 745GL comp. date: 01/01/59 td: 125 producing formation: td formation: latitude: 41.784890 longitude: 88.041511 120430036500 Neely, George
DuPage Briarcliff Corp
Status: WATER 595 SL 1245 WL NE
permit: 0 permit date: 13-38N-10E 17 Elev: 751GL comp. date: 01/01/59 permit: 0 permit date:
Lambert X: 3397212 Lambert Y: 3187545
producing formation: td formation:
latitude: 41.773690 longitude: 88.046789 td: 180 13-38N-10E 120430039400 Neely, George Briarcliff Corp 24 Elev: 750GL DuPage Briarcliff Corp
Status: WATER 1075 NL 1275 EL Elev: 750GL
permit: 0 permit date: comp. date: 01/01/59
Lambert X: 3397284 Lambert Y: 3188538 td: 165
producing formation: td formation: latitude: 41.782397 longitude: 88.037053 DuPage 120430039600 Neely, George
DuPage Briarcliff Corp
Status: WATER 900 SL 1050 EL
permit: 0 permit date:
Lambert X: 3397624 Lambert Y: 3185210
producing formation: td formation:
latitude: 41.774786 longitude: 88.035932 13-38N-10E 32 Elev: 760GL comp. date: 01/01/59 td: 170 120430052300 Neely, George
DuPage Briarcliff Corp
Status: WATER 1900 SL 1200 EL
permit: 0 permit date:
Lambert X: 3397440 Lambert Y: 3186201
producing formation: td formation:
latitude: 41.777526 longitude: 88.036583 13-38N-10E 51 Elev: comp. date: 01/01/59 td: 170 120430039300 DuPage Neely, George Briarcliff Corp 13-38N-10E 9 Status: WATER 825 SL 525 WL Elev: 738GL permit: 0 permit date: Lambert X: 3393976 Lambert Y: comp. date: 01/01/59 Lambert Y: 3184962 td: 150 producing formation: td formation: latitude: 41.774267 longitude: 88.049214 120430027500 Neely, George DuPage Briarcliff Corp 13-38N-10E DuPage Briarcliff Corp
Status: WATER 825 SL 600 EL NE
permit: 0 permit date:
Lambert X: 3397984 Lambert Y: 3187812
producing formation: td formation:
latitude: 41.781934 longitude: 88.034533 Elev: 750GL comp. date: 01/01/59 td: 166

```
120430052100
DuPage
                 Perrine William
                                                               13-38N-10E
Status: WATER 1440 SL 1230 EL permit: 0
                  Briarcliff Corp
                                                        Elev:
permit date:
Lambert X: 3397426

producing form
                                                   comp. date: 01/01/59
                       Lambert Y: 3185741
                                                     td: 170
producing formation: td formation: latitude: 41.776256 longitude: 88.036648
120430024500 Perrine William
                                                               13-38N-10E
                  Briarcliff Corp
DuPage
Status: WATER 1180 SL 710 EL permit: 0 permit date:
                                                       Elev:
producing formation: td formal latitude: 41.782909 longitude.
                                                   comp. date: 01/01/59
                                                     td: 165
                         td formation:
                          longitude: 88.034972
120430086800
                 Neely, George
                                                               13-38N-10E
                  Bunting Edward
DuPage
Status: WATER 300 SL 150 EL
                                       SW SW SE
                                                       Elev:
                    permit date:
                                               comp. date: 09/01/67
permit: 0
Lambert X: 3396590
                       Lambert Y: 3184561
                                                     td: 140
                                     td formation:
producing formation:
latitude: 41.773043 longitude: 88.039751
120430039700 Neely, George
                                                               13-38N-10E
                  Casper Bldrs
                                                         25
Status: WATER 175 SL 375 WL SE
                                                        Elev: 720GL
                   permit date:
                                                   comp. date: 01/01/59
permit: 0
Lambert X: 3396463 Lambert Y: 3184430 producing formation: td formation: latitude: 41.772457 longitude: 88.050019
                                                     td: 150
120432711600 Knierim, Phillip E.
                                                              13-38N-10E
DuPage
                  Chiapetta, Joe
status: WATER permit: 119470 permit date: 08/09/85 comp. date: 08/29/85 Lambert X: 3394917 Lambert Y: 3189163 td: 180 producing formation: td formation:
Status: WATER
                                                     Elev:
                                      NW NE NW
                       td formation.
longitude: 88.045639
latitude: 41.785800
Water from rock at depth 80 to 180 ft.
Screen: Diam. 0 in. Length: 0 ft. Slot: 0
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight From(ft)
                                                        To(ft)
                       BLACK 15 LB
        5
                                                             120
Size hole below casing: 4.38 in.
Static level 80 ft. below casing top which is 1 ft. above grnd level. Pumping level 160 ft. when pumping at 20 gpm for 4 hours.
Formations Passed Through
                                              Thickness Bottom
  soil
                                                2 2
  clav
                                                78
                                                           80
  sand-gravel
                                                40
                                                         120
  rock
                                                60
                                                         180
120432628400 Fykes, Charles N.
                                                              13-38N-10E
                  Clark, Howard Construction
DuPage
                                                     Elev:
SE NW NE
permit date: 11/07/80
Lambert X: 3396913
producing formation:
latitude: 41 704155
                                      SE NW NE
                                                    comp. date: 11/19/80
                                                     td: 165
                                     td formation:
                       longitude: 88.038323
Water from limestone at depth 105 to 165 ft.
Screen: Diam. 0 in. Length: 0 ft.
                                            Slot: 0
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                           From(ft)
                                                        To(ft)
                                             _. 0
```

A-53 15#

109

```
Size hole below casing: 5 in.
Static level 100 ft. below casing top which is 1 ft. above grnd level. Pumping level 130 ft. when pumping at 15 gpm for 1 hours.
                                             15 gpm for 1 hours.
Formations Passed Through
                                             Thickness Bottom
                                               55
                                                         55
  clav
                                               50
                                                         105
  gravel
                                               60
                                                         165
  limestone
120430020000
                   Vidas Mike
                                                             13-38N-10E
DuPage
                   Clover Constr
                  900 SL 800 EL
Status: WATER
                                                       Elev:
                                                               760GL
                                       NE
                      permit date:
permit: 0
                                                   comp. date: 01/01/59
Lambert X: 3397782
                        Lambert Y: 3187877
                                                     td:
                                                           175
                                    td formation:
producing formation:
                             longitude: 88.035276
latitude: 41.782135
120432628500
                                                             13-38N-10E
                   Senffner, Alan James
DuPage
                   Crawley Construction
                                     SW SE SW
Status: WATER
                                                     Elev:
                                                   comp. date: 11/18/81
permit: 102155
                      permit date: 11/18/81
Lambert X: 3395104
                       Lambert Y: 3184522
                                                    td: 175
producing formation:
                                    td formation:
latitude: 41.773001
                             longitude: 88.045224
Water from limestone at depth 0 to
                                            0 ft.
                                           Slot: 0
Screen: Diam. 0 in. Length:
                                  0 ft.
Casing and Liner Pipe -
     Diam. (in.)
                     Kind and Weight
                                          From(ft)
                                                             97
                       STEEL 14.98
Size hole below casing: 5 in.
Static level 0 ft. below casing top which is
                                                       8 ft. above grnd level.
                85 ft. when pumping at
Pumping level
                                              10 gpm for
                                             Thickness Bottom
Formations Passed Through
  drift
                                              97
                                                         97
  limestone
                                               78
                                                         175
120432628600
                   Senffner, Alan James
                                                             13-38N-10E
DuPage
                   Creagan, Steve
Status: WATER
                                     NE
                                                     Elev:
permit: 102389
Lambert X: 3397253
                      permit date: 12/11/81
                                                   comp. date: 12/10/81
                      Lambert Y: 3188281
                                                     td: 190
producing formation:
latitude: 41.783266
                                    td formation:
                             longitude: 88.037090
Water from limestone at depth 0 to 0 ft.
                                            Slot: 0
Screen: Diam. 0 in. Length:
                                  0 ft.
Casing and Liner Pipe -
     Diam. (in.)
                     Kind and Weight
                                          From(ft)
                                                       To(ft)
        5
                      STEEL 14.98
                                                             99
Size hole below casing: 5 in.
Static level 0 ft. below casing top which is
                                                       8 ft. above grnd level.
Pumping level
                 130 ft. when pumping at
                                             10 gpm for 2 hours.
Formations Passed Through
                                             Thickness Bottom
  drift
                                                         99
                                               99
  limestone
                                               91
                                                         190
120430292800
                   K & K Well Drilling
                                                             13-38N-10E
DuPage
                   D & L Constr
Status: WATER
                                     NE
                                                     Elev:
                                                   comp. date: 08/01/72
permit: 0
                      permit date:
                       Lambert Y: 3188281
Lambert X: 3397253
                                                     td: 180
producing formation:
                                    td formation:
latitude: 41.783323
                             longitude: 88.037074
120430020200
                   Randa Wm J
                                                             13-38N-10E
DuPage
                   Dahl John
Status: WATER
                  900 SL 60
                               EL
                                                               748GT
                                        SE
                                                       Elev:
```

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permit: 0 permit date: comp. date: 01/01/58

Lambert X: 3398612 Lambert Y: 3185257 td: 165

producing formation: td formation: latitude: 41.774871 longitude: 88.032292

120430147800 K & K Well Drilling 13-38N-10E

Dak Brook-Stade DuPage

Status: WATER SW SW SE Elev:

permit date: permit: 0 comp. date: 02/01/71

Lambert Y: 3184585 Lambert X: 3396409 td: 125

td formation: producing formation: longitude: 88.040407 latitude: 41.774032

120432628700 Senffner, Alan James 13-38N-10E

DuPage Dickerson, Ken

Lambert X: 3394629 Droducire (104324 permit date: 07/29/82 permit x: 3394629 Lambert Y Elev:

comp. date: 07/22/82

td: 190

producing formation: latitude: 41.783029 td formation: longitude: 88.046759 Water from limestone at depth 0 to 0 ft. Screen: Diam. 0 in. Length: 0 ft. Slot: 0

Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) STEEL 14.98

Size hole below casing: 5 in.

Static level 0 ft. below casing top which is Pumping level 120 ft. when pumping at 10 ft. 8 ft. above grnd level.

10 gpm for 2 hours.

Formations Passed Through Thickness Bottom drift 97 97 limestone 93 190

120432529100 Fykes Charles & Pump 13-38N-10E 1

DuPage Domzalski Victor

Status: WATER SE SE NW Elev:

permit date: comp. date: 09/01/78 permit: 0

td: 165 td formation:

producing formation: latitude: 41 7007 latitude: 41.780541 longitude: 88.042938

120432374600 Lockport Well & Pump 13-38N-10E 1

DuPage Ericksen D H

Status: WATER SW SE Elev:

permit date: permit: 0 comp. date: 03/01/74

Lambert X: 3396722 Lambert Y: 3184932 td: 160

producing formation: td formation: latitude: 41.775884 longitude: 88.039241

120430027100 Randa Wm J 13-38N-10E

DuPage Fagulec J

Status: WATER 425 NL 100 EL SE Elev: 770GL permit: 0 permit date: comp. date: 01/01/59

td: 167

producing formation: Lambert Y: 3186588 latitude: 41 705757 td formation: longitude: 88.032827

120432415900 K & K Well Drilling 13-38N-10E

DuPage Freese Herb

Status: WATER Elev: permit: 0 permit date: comp. date: 05/01/75

Lambert X: 3397351 Lambert Y: 3185627 td: 160

producing formation: td formation: latitude: 41.779573 longitude: 88.036941

```
120432529200
                                                              13-38N-10E
                   Fykes Charles & Pump
DuPage
                   George'S Lumber
Status: WATER
                                      SW NW
                                                      Elev:
                                                                0
                                                    comp. date: 05/01/78
permit: 0
                      permit date:
                         Lambert Y: 3187458
                                                      td: 185
Lambert X: 3394000
producing formation:
                                     td formation:
latitude: 41.781463
                              longitude: 88.048847
120430248200
                   Lockport Well & Pump
                                                              13-38N-10E
                   Grodolph Paul
                                                         1
DuPage
Status: WATER
                                      NE NW NW
                                                      Elev:
                                                                n
                                                    comp. date: 05/01/72
permit: 0
                      permit date:
Lambert X: 3394259
                        Lambert Y: 3189131
                                                      td: 185
producing formation:
                                     td formation:
                              longitude: 88.047616
latitude: 41.786184
120432747700
                   Fykes, Charles
                                                              13-38N-10E
                                                         1
DuPage
                   Grows, Robert
                                                        Elev:
                                                                768GL
Status: WATER
                  670 NL 420 WL
permit: 126384
                      permit date: 08/27/86
                                                   comp. date: 08/27/86
Lambert X: 3393707
                        Lambert Y: 3188766
                                                     td: 205
producing formation: latitude: 41.784759
                                     td formation:
                              longitude: 88.050117
Water from limestone at depth 120 to
                                          205 ft.
                                            Slot: 0
Screen: Diam. 0 in. Length:
                                 0 ft.
Casing and Liner Pipe -
                                           From(ft)
                                                        To(ft)
     Diam. (in.)
                     Kind and Weight
                      A-53 15 LB
                                                             120
Size hole below casing: 5 in.
Static level 120 ft. below casing top which is Pumping level 160 ft. when pumping at 10
                                                       1 ft. above grnd level.
                                             10 gpm for 1 hours.
Formations Passed Through
                                             Thickness Bottom
 clay
                                               80
                                                          80
  gravel
                                               40
                                                          120
                                               85
                                                          205
  limestone
120432866000
                                                              13-38N-10E
                   Fykes, Charles N.
DuPage
                   Gurtler, Dave
                                                        1
Status: WATER
                                      NW NW NW
                                                     Elev:
permit: 013950
                      permit date: 08/17/89
                                                   comp. date: 09/20/89
Lambert X: 3393602
                         Lambert Y: 3189098
                                                     td: 205
producing formation:
                                     td formation:
latitude: 41.785678
                             longitude: 88.050485
Water from limestone at depth 120 to
                                           205 ft.
                                  0 ft.
Screen: Diam. in. Length:
                                            Slot:
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                           From(ft)
        5
                                                             120
                       A53 15#
Size hole below casing: 5 in.
Static level 80 ft. below casing top which is Pumping level 100 ft. when pumping at 0
                                                        1 ft. above grnd level.
                                                0 gpm for
                                                                1 hours.
Formations Passed Through
                                             Thickness Bottom
  clay
                                                           30
                                               30
  gravel
                                                10
                                                           40
  clay
                                                60
                                                          100
  gravel
                                                20
                                                          120
  limestone
                                                85
                                                          205
120432628800
                   Ward, Delbert G.
                                                              13-38N-10E
DuPage
                   Healy, Bill
Status: WATER
                                                     Elev:
                                      ΝW
                                                   comp. date: 02/03/83
permit: 106111
                      permit date: 01/27/83
Lambert X: 3394629
                                                      td: 160
                         Lambert Y: 3188153
producing formation:
                                     td formation:
latitude: 41.783029
                              longitude: 88.046759
```

```
Water from rock at depth 0 to 160 ft.
Screen: Diam. 0 in. Length: 0 ft. Slot: 0
Casing and Liner Pipe -
      Diam. (in.) Kind and Weight From(ft) To(ft)
                           #15 BLACK
                                                                    108
Size hole below casing: 4.75 in.
Static level 85 ft. below casing top which is 1 ft. ab
Pumping level 105 ft. when pumping at 10 gpm for
                                                                1 ft. above grnd level.
Formations Passed Through
                                                       Thickness Bottom
                                                         60
                                                                     60
   clay
   sand & gravel
                                                                      65
                                                         30
                                                                      95
  clay
                                                                     108
  sand gravel
                                                         13
                                                         52
   rock
120432463700
                       K & K Well Drilling
                                                                          13-38N-10E
                       Hemza Joe
DuPage
                                             SE
                                                               Elev:
Status: WATER
                           Comp. date: 07/01/76
Lambert Y: 3185627
td: 160
Lambert X: 3397351 Lambert T
producing formation: td formation: latitude: 41.779573 longitude: 88.036941
120430068500 Randa Wm J
DuPage Herkel Donald
                                                                         13-38N-10E
                                                                    59
Status: WATER 2650 NL 1600 WL
permit: 0 permit date:
Lambert X: 3394970 Lambert Y: 3186848
producing formation: td formation:
latitude: 41.779417 longitude: 88.045580
                                                                  Elev:
                                                             comp. date: 01/01/59
                                                               td: 137
120430039900
                    Neely, George
Hijo Industries
                                                                          13-38N-10E
DuPage Hijo Industries
Status: WATER 950 NL 100 EL
permit: 0 permit date:
Lambert X: 3398453 Lambert Y: 3188720
producing formation: td formation:
latitude: 41.782104 longitude: 88.041387
                                                                   28
                                                                 Elev: 740GL
                                                         comp. date: 01/01/59
                                                              td: 150
120432628900 Ward, Delbert G. DuPage Hodina, George
                                                                          13-38N-10E
Status: WATER
                                             NW
                                                               Elev:
permit: 106852 permit date: 04/20/83
Lambert X: 3394629 Lambert Y: 3188153
producing formation: td forma
latitude: 41.783029 longitude: 88 0
                                                           comp. date: 04/27/83
                                                               td: 160
                                            td formation:
latitude: 41.783029 longitude: 88.046759 Water from rock at depth 0 to 160 ft.
Screen: Diam. 0 in. Length: 0 ft.
                                                   Slot: 0
Casing and Liner Pipe -
      Diam. (in.) Kind and Weight
                                                  From(ft)
                                                                  To(ft)
         5
                           #15 BLACK
Size hole below casing: 4.5 in.
Static level 30 ft. below casing top which is 1 ft. above grnd level. Pumping level 50 ft. when pumping at 10 gpm for 4 hours.
Formations Passed Through
                                                      Thickness Bottom
                                                                  87
  clay
                                                         87
  sand gravel
                                                         3
                                                                      90
  rock
                                                         70
                                                                     160
120430067400
                     Neely, George
                                                                         13-38N-10E
DuPage
                      Hoffman W C
                                                                   17
Status: WATER 1200 SL 600 EL permit: 0 permit date:
                                                                 Elev:
                                                                              n
_____ Lambert Y: 3185531 producing formation:
                       permit date:
                                                             comp. date: 01/01/60
                                                              td: 175
                                            td formation:
```

latitude: 41.775651 longitude: 88.034308

Perrine William 120430067300 13-38N-10E Hoffman W C DuPage 2050 SL 600 EL Status: WATER Elev: permit date: comp. date: 01/01/60 permit: 0 Lambert Y: 3186380 Lambert X: 3398034 td: 175 producing formation: td formation: latitude: 41.777990 longitude: 88.034390 13-38N-10E 120430052400 Neely, George Holbrook Warren 41 DuPage Elev: Status: WATER 350 SL 1280 EL permit date: comp. date: 01/01/59 permit: 0 Lambert X: 3397411 Lambert Y: 3184650 td: 155 producing formation: td formation: longitude: 88.036723 latitude: 41.773252 13-38N-10E 120432406800 Dupage Pump DuPage Horgan Geo J Status: WATER SW NE Elev: comp. date: 04/01/75 permit: 0 permit date: Lambert X: 3396622 Lambert Y: 3187586 td: 200 producing formation: td formation: latitude: 41.781479 longitude: 88.039397 13-38N-10E 120432960400 Knierim, Phil DuPage Ivco Builders Inc. SW SE SE Status: WATER Elev: permit date: 03/10/94 comp. date: 08/29/94 permit: td: 200 Lambert X: 3397713 Lambert Y: 3184647 producing formation: td formation: latitude: 41.773230 longitude: 88.035612 Water from rock at depth 130 to 200 ft. Screen: Diam. in. Length: 0 ft. Slot: Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) 5 PVC 200 PSI 112 Size hole below casing: 4.75 in. Static level 80 ft. below casing top which is Pumping level 110 ft. when pumping at 0 1 ft. above grnd level. 0 gpm for 3 hours. Thickness Bottom Formations Passed Through 3 top soil 3 clay 65 62 72 sand & gravel 7 clay 11 83 sand & gravel 25 108 rock 92 200 13-38N-10E 120430284300 K & K Well Drilling James Const DuPage Status: WATER SW Elev: comp. date: 05/01/72 permit: 0 permit date: Lambert Y: 3185501 Lambert X: 3394737 td: 160 producing formation: td formation: latitude: 41.779429 longitude: 88.046342 120432493200 13-38N-10E K & K Well Drilling DuPage Janoski Bruno Status: WATER W2 NW Elev: comp. date: 01/01/77 permit: 0 permit date: Lambert X: 3393973 Lambert Y: 3188121 td: 160 producing formation: td formation: latitude: 41.783357 longitude: 88.048821

-10-

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13-38N-10E
120432529300
DuPage
                   Jelinek Lester
Status: WATER
                                     NW NW SW
                                                     Elev:
permit: 0
                      permit date:
                                                   comp. date: 12/01/77
                         Lambert Y: 3186448
                                                           180
                                                     td:
Lambert X: 3393715
                                    td formation:
producing formation:
latitude: 41.784926
                             longitude: 88.049768
                   Fykes, Charles N.
                                                             13-38N-10E
120432629000
                                                        1
DuPage
                   Jenschke, James
                                     SE NE NE
                                                     Elev:
                                                              0
Status: WATER
permit: 95420
                      permit date: 08/08/80
                                                   comp. date: 08/21/80
Lambert X: 3398226
                         Lambert Y: 3188661
                                                     td: 185
                                    td formation:
producing formation:
latitude: 41.784270
                             longitude: 88.033485
Water from limestone at depth 134 to
                                          185 ft.
Screen: Diam. 0 in.
                    Length:
                                  Oft.
                                           Slot: 0
Casing and Liner Pipe -
     Diam. (in.)
                     Kind and Weight
                                          From(ft)
                                                       To(ft)
                       A-53 15#
                                                        . 136
Size hole below casing: 5 in.
Static level 115 ft. below casing top which is
                                                       1 ft. above grnd level.
              130 ft. when pumping at
                                              12 gpm for
Pumping level
                                                               1 hours.
Formations Passed Through
                                            Thickness Bottom
  clay
                                                           8
                                              17
                                                          25
  gravel
                                              12
  clay
                                                         37
  sand/gravel
                                                          45
                                               8
  clay
                                              35
                                                         80
  gravel
                                              25
                                                         105
  lime/shale
                                              29
                                                         134
  limestone
                                              51
                                                         185
120430027400
                   Perrine William
                                                             13-38N-10E
DuPage
                   Johnson
                  750 SL 725 EL
                                                      Elev:
Status: WATER
                                       NE
                                                               755GL
                     permit date:
permit: 0
                                                  comp. date: 01/01/59
Lambert X: 3397862
                       Lambert Y: 3187731
                                                    td:
producing formation:
                                    td formation:
latitude: 41.781724
                             longitude: 88.034983
120432917800
                   Knierim, Phil
                                                            13-38N-10E
DuPage
                   Johnson, Bruce
                                                       1
Status: WATER
                                     SW SW NE
                                                    Elev:
                                                               n
                      permit date: 04/05/92
permit: H920088
                                                  comp. date: 06/22/92
Lambert X: 3396307
                         Lambert Y: 3187238
                                                    td: 205
producing formation:
                                    td formation:
latitude: 41.780433
                             longitude: 88.040635
Water from limestone at depth 132 to
                                          205 ft.
Screen: Diam. in. Length:
                                  0 ft.
                                           Slot:
Casing and Liner Pipe -
     Diam. (in.)
                     Kind and Weight
                                          From(ft)
                                                      To(ft)
                       A-53 15#
                                                           132
Size hole below casing: 5 in.
Static level 100 ft. below casing top which is
                                                      1 ft. above grnd level.
Pumping level
                120 ft. when pumping at
                                                              1 hours.
                                               0 gpm for
Formations Passed Through
                                            Thickness Bottom
  gravel
                                              20
                                                         20
  clay
                                              95
                                                        115
  gravel
                                               8
                                                        123
  limestone
                                                        205
                                              82
                   Fykes, Charles
120432749900
                                                            13-38N-10E
DuPage
                   Johnson, Ken
                                                       1
```

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permit: 126736 Lambert V
                                                     Elev:
                                                             768GL
                 permit date: 09/12/86
                                                comp. date: 09/15/86
Lambert X: 3393662
                      Lambert Y: 3188783
                                                  td: 205
producing formation:
                                   td formation:
                            longitude: 88.050282
latitude: 41.784808
                                         205 ft.
Water from limestone at depth 170 to
Screen: Diam. 0 in. Length:
                               0 ft.
                                         Slot: 0
Casing and Liner Pipe -
                    Kind and Weight
                                         From(ft)
                                                     To(ft)
     Diam. (in.)
                                                          123
        5
                      A-53 15 LB
Size hole below casing: 5 in.
Static level 100 ft. below casing top which is Pumping level 160 ft. when pumping at 10
                                                     1 ft. above grnd level.
                                             10 gpm for
                                           Thickness Bottom
Formations Passed Through
                                                        5
                                              5
  top soil
                                             20
                                                        25
  clay
                                             24
                                                        49
  gravel
                                                        67
  blue clav
                                             18
                                                        75
                                              8
  sand
                                             24
                                                        99
  gravel
  blue clay
                                             12
                                                       111
                                             11
                                                       122
  gravel
                                                       162
                                             40
  limestone
                                              8
                                                       170
 no record
 limestone
                                             35
                                                       205
120430243300
                 K & K Well Drilling
                                                           13-38N-10E
                  Jones Bill
DuPage
                                                   Elev:
Status: WATER
                                                 comp. date: 03/01/72
permit: 0
                     permit date:
Lambert X: 3397351
                       Lambert Y: 3185627
                                                   td: 138
producing formation:
                                   td formation:
latitude: 41.779573
                            longitude: 88.036941
                                                           13-38N-10E
120430343400
                 K & K Well Drilling
DuPage
                  Jorgenson Ralph
Status: WATER
                                    SE
                                                   Elev:
                                                             n
                                                 comp. date: 10/01/73
                     permit date:
permit: 0
                     Lambert Y: 3185627
Lambert X: 3397351
                                                   td: 145
producing formation:
                                   td formation:
latitude: 41.779573
                            longitude: 88.036941
                                                           13-38N-10E
120430343500
                 K & K Well Drilling
DuPage
                  Jorgenson Ralph
Status: WATER
                                                   Elev:
                                                 comp. date: 10/01/73
permit: 0
                     permit date:
Lambert X: 3397351
                     Lambert Y: 3185627
                                                   td: 140
producing formation:
                                   td formation:
latitude: 41.779573
                            longitude: 88.036941
120430343600
                                                           13-38N-10E
                  K & K Well Drilling
DuPage
                   Jorgenson Ralph
Status: WATER
                                                   Elev:
                                    SE
permit: 0
                      permit date:
                                                 comp. date: 10/01/73
                     Lambert Y: 3185627
Lambert X: 3397351
                                                    td: 140
producing formation:
                                   td formation:
latitude: 41.779573
                            longitude: 88.036941
                                                            13-38N-10E
120430349000
                  K & K Well Drilling
DuPage
                  Kibdle Ella
Status: WATER
                                    NW NW NW
                                                   Elev:
permit: 0
                      permit date:
                                                 comp. date: 11/01/73
Lambert X: 3393602
                      Lambert Y: 3189098
                                                    td: 180
producing formation:
                                   td formation:
latitude: 41.786207
                             longitude: 88.049943
```

120430036800 AI-Well Drilling 13-38N-10E

8

King Donald DuPage

990 SL 760 EL Status: WATER SE Elev: 760GL permit date: comp. date: 01/01/59 permit: 0

Lambert Y: 3185314 Lambert X: 3397911 td: 180

producing formation: td formation:

longitude: 88.034873 latitude: 41.775057

K & K Well Drilling 120430292700 13-38N-10E

DuPage Kooling R

Status: WATER Elev:

permit date: permit: 0 comp. date: 08/01/72

Lambert X: 3394737 Lambert Y: 3185501 td: 160

producing formation: td formation:

longitude: 88.046342 latitude: 41.779429

120430349100 K & K Well Drilling 13-38N-10E

Kost DuPage

Status: WATER SE Elev:

permit: 0 permit date: comp. date: 11/01/73

Lambert X: 3397351 Lambert Y: 3185627 td: 160

td formation: producing formation:

latitude: 41.779573 longitude: 88.036941

120432387900 Dupage Pump 13-38N-10E

DuPage Kremer Jack

Status: WATER NE SW NE Elev: 0

comp. date: 09/01/74 permit: 0 permit date:

Lambert X: 3396938 Lambert Y: 3187934 td: 190

producing formation: latitude: 41.782405 td formation:

longitude: 88.038232

120432423500 K & K Well Drilling 13-38N-10E

DuPage Kremer John

Status: WATER W2 NE Elev:

comp. date: 09/01/75 permit: 0 permit date:

Lambert Y: 3188249 Lambert X: 3396597 td: 150

producing formation: td formation:

latitude: 41.783329 longitude: 88.039423

120432476700 K & K Well Drilling 13-38N-10E

Kulius Earl DuPage

Status: WATER n Elev:

permit: 0 permit date: comp. date: 09/01/76

Lambert X: 3394737 Lambert Y: 3185501 td: 140

producing formation: td formation:

latitude: 41.779429 longitude: 88.046342

120432388000 Dupage Pump 13-38N-10E

DuPage Kwitschaw Algird

Status: WATER N2 SE NW Elev:

permit: 0 permit date: comp. date: 09/01/74

Lambert X: 3395298 Lambert Y: 3187853 td: 180

producing formation: td formation:

longitude: 88.044120 latitude: 41.782407

120430349200 Dupage Pump 13-38N-10E

DuPage Laursen John

Status: WATER Elev:

permit: 0 permit date: comp. date: 11/01/73

Lambert X: 3395993 Lambert Y: 3186891 175 td:

producing formation: td formation: latitude: 41.779491 longitude: 88.041811

13-38N-10E 120432752600 Liberg, Paul Evan Lezeren, Marion DuPage 760GL Status: WATER 1000 NL 2300 EL Elev: permit date: 10/02/86 comp. date: 10/01/86 permit: 127299 Lambert X: 3396258 Lambert Y: 3188562 td: 180 td formation: producing formation: latitude: 41.784084 longitude: 88.040737 Water from limestone at depth 128 to 180 ft. Slot: 0 Screen: Diam. 0 in. Length: O ft. Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) 128 5 BLACK 15 LB/FT Size hole below casing: 5 in. Static level 120 ft. below casing top which is Pumping level 120 ft. when pumping at 20 1 ft. above grnd level. 20 gpm for 2 hours. Formations Passed Through Thickness Bottom stoney clay 110 110 broken gravel 18 128 52 180 rock 120430027600 Neely, George 13-38N-10E DuPage Loser Ralph Status: WATER Elev: 762GL 1075 NL 1225 WL comp. date: 01/01/59 permit: 0 permit date: Lambert X: 3394528 Lambert Y: 3188401 td: 165 producing formation: td formation: latitude: 41.782507 longitude: 88.046258 120432383400 Dupage Pump 13-38N-10E M & S Constr DuPage Status: WATER SW SW NE Elev: comp. date: 07/01/74 permit: 0 permit date: Lambert X: 3396307 Lambert Y: 3187238 td: 190 producing formation: td formation: latitude: 41.780551 longitude: 88.040569 13-38N-10E 120432416000 Dupage Pump M & S Constr DuPage Status: WATER N2 SE NW Elev: comp. date: 07/01/75 permit: 0 permit date: Lambert Y: 3187853 td: 175 Lambert X: 3395298 producing formation: td formation: latitude: 41.782407 longitude: 88.044120 120430339700 13-38N-10E Dupage Pump DuPage M & S Constr Status: WATER Λ NE Elev: comp. date: 09/01/73 permit: 0 permit date: Lambert X: 3397253 Lambert Y: 3188281 td: 180 producing formation: td formation: latitude: 41.783323 longitude: 88.037074 120430323400 13-38N-10E Dupage Pump DuPage M & S Constr Status: WATER Elev: permit: 0 comp. date: 06/01/73 permit date: Lambert X: 3397253 Lambert Y: 3188281 td: 175 producing formation: td formation: latitude: 41.783323

MOR 000178

longitude: 88.037074

120432476800 Dupage Pump DuPage M & S Constr 13-38N-10E permit: 0 permit date:
Lambert X: 3396938 Lambert Y: 3187934
producing formation: td formation NE SW NE Elev: comp. date: 10/01/76 td: 190 td formation: producing formation: td formation: latitude: 41.782405 longitude: 88.038232 120430067500 Neely, George DuPage Maly Jerome 13-38N-10E 20 Elev: 0 Status: WATER 2375 NL 75 EL Elev: 0
permit: 0 permit date: comp. date: 01/01/60
Lambert X: 3398527 Lambert Y: 3187299 td: 175
producing formation: td formation:
latitude: 41.786033 longitude: 88.041395 120432433700 K & K Well Drilling
DuPage Masek Frank 13-38N-10E Elev: Status: WATER permit: 0 permit date:
Lambert X: 3394737 Lambert Y: 3185501
producing formation: td formation:
latitude: 41.779429 longitude: 88.046342 comp. date: 12/01/75 td: 160 120432629100 Knierim, Phil DuPage Masek, George 13-38N-10E Status: WATER SE SW NE Elev: 0
permit: 94356 permit date: 06/12/80 comp. date: 06/13/80
Lambert X: 3396962 Lambert Y: 3187270 td: 140
producing formation: producing formation: td formation: latitude: 41.780492 longitude: 88.038221 Water from limestone at depth 130 to 140 ft. Screen: Diam. 0 in. Length: 0 ft. Slot: 0 Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft)
5 BLACK 15# To(ft) 130 Size hole below casing: 4.75 in. Static level 105 ft. below casing top which is 1 ft. above grnd level. Pumping level 120 ft. when pumping at 20 gpm for 4 hours. Formations Passed Through Thickness Bottom top soil 5 5 120 . clav 125 sand & gravel 14 139 limestone 1 140 120430039800 Beyreis, Kenneth McCabe 13-38N-10E Elev: 760GL Status: WATER 825 NL 1025 WL
permit: 0 permit date:
Lambert X: 3394318 Lambert Y: 3188641
producing formation: td formation:
latitude: 41.781810 longitude: 88.045536 comp. date: 01/01/59 td: 122 120432739100 Fykes, Charles

DuPage Meilbeck, Dave

Status: WATER
permit: 124630 permit date: 06/19/86 comp. date: 07/18/86

Lambert X: 3395626 Lambert Y: 3187869 td: 185
producing formation: td formation: latitude: 41.782202 longitude: 88.043105 Water from limestone at depth 99 to 185 ft. Screen: Diam. 0 in. Length: 0 ft. Slot: 0 Casing and Liner Pipe ng and Liner Fipe Diam. (in.) Kind and Weight From(ft)
5 A-53 15 LB 0 To(ft) 105

```
Size hole below casing: 5 in.
Static level 90 ft. below casing top which is 1 ft. above grnd level. Pumping level 130 ft. when pumping at 12 gpm for 1 hours.
                                                     Thickness Bottom
Formations Passed Through
                                                                24
                                                       24
                                                       11
                                                                    35
   gravel
                                                       15
                                                                    50
  clay
                                                        5
                                                                    55
   sand
                                                       23
                                                                   78
   gravel
                                                       9
                                                                   87
  sand
                                                       12
                                                                    99
  sand & gravel
   limestone
                                                       86
                                                                   185
120432433800
                     Sission, Edward H.
                                                                        13-38N-10E
                      Mentelle James
DuPage
                                           SW NE NE
Status: WATER 160 NL 260 EL
                                                               Elev:
                                                  comp. date: 11/01/75
                       permit date:
permit: 0
Lambert X: 3397632 Lambert Y: 3188805 producing formation: td formation: latitude: 41.784713 longitude: 88.035718
                                                            td: 175
120430052500 Beyreis, Kenneth DuPage Mitchel Tomas
                                                                      13-38N-10E
                                                                 9
Status: WATER 1680 SL 2050 EL
permit: 0 permit date:
Lambert X: 3396599 Lambert Y: 3185941
producing formation: td formation:
latitude: 41.776846 longitude: 88.039684
                                                                Elev:
                                                                           0
                                                           comp. date: 01/01/59
                                                            td: 126
                                                                       13-38N-10E
120430012200 Randa Wm J
DuPage
                      Molitor Donald
Status: WATER
                                                            Elev: 750GL
                                           SE NE SE
Lambert X: 3398319 permit date:
                                                        comp. date: 01/01/58
                         Lambert Y: 3186006
                                                             td: 163
                                          td formation:
producing formation:
latitude: 41.781441
                               longitude: 88.033476
120432843500 Knierim, Phillip E.

DuPage Moroney, Mark
Status: WATER 75 NL 2100 WL
permit: 111378 permit date: 03/01/84
                                                                        13-38N-10E
                                                               Elev: 742GL
                                                          comp. date: 08/16/84
Lambert X: 3395358 Lambert Y: 3189442 producing formation: td formation: latitude: 41.786549 longitude: 88.043999 Water from rock at depth 110 to 160 ft.
                                                              td: 160
Screen: Diam. 0 in. Length: 0 ft.
                                                  Slot: 0
Casing and Liner Pipe -
      Diam. (in.) Kind and Weight From(ft)
                                                                To(ft)
                          BLACK #15
Size hole below casing: 4.75 in.
Static level 80 ft. below casing top which is 1 ft. above grnd level. Pumping level 120 ft. when pumping at 10 gpm for 2 hours.
Formations Passed Through
                                                     Thickness Bottom
                                                                  4
   top soil
                                                        4
  clay
                                                       81
                                                                    85
  sand gravel
                                                       25
                                                                   110
                                                       50
120430052600
                                                                      13-38N-10E
                     Neely, George
DuPage
                      Munson
                                                                  2
Status: WATER
                     1030 NL 600 EL
                                                                Elev:
                                                          comp. date: 01/01/60
                       permit date:
permit: 0
                          Lambert Y: 3188616
Lambert X: 3397956
                                                             td: 165
producing formation:
                                          td formation:
latitude: 41.782303
                                 longitude: 88.039541
```

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120432493300
                  K & K Well Drilling
                                                            13-38N-10E
                   Myers Steve
DuPage
Status: WATER
                                                    Elev:
                      permit date:
                                                  comp. date: 03/01/77
permit: 0
                         Lambert Y: 3185627
Lambert X: 3397351
                                                    td: 130
                                    td formation:
producing formation:
latitude: 41.779573
                             longitude: 88.036941
                   K & K Well Drilling
120432503000
                                                            13-38N-10E
                   Myers Steve
DuPage
Status: WATER
                                     SE
                                                    Elev:
permit: 0
                      permit date:
                                                  comp. date: 04/01/77
                        Lambert Y: 3185627
Lambert X: 3397351
                                                    td: 114
                                    td formation:
producing formation:
latitude: 41.779573
                             longitude: 88.036941
120432720300
                   Fykes, Charles
                                                            13-38N-10E
                  Myers, William
DuPage
                                                       1
                  525 NL 300 WL
Status: WATER
                                                      Elev:
                                                              768GL
                                                 comp. date: 10/11/85
permit: 127909
                     permit date: 10/10/85
                       Lambert Y: 3188904
Lambert X: 3393581
                                                   td:
                                                          185
producing formation:
                                   td formation:
latitude: 41.785145
                            longitude: 88.050573
Water from limestone at depth 125 to
                                        185 ft.
                                 0 ft.
Screen: Diam. 0 in. Length:
                                          Slot: 0
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                         From(ft)
                                                      To(ft)
        5
                      A-53 15 LB
                                                           126
Size hole below casing: 5 in.
Static level 80 ft. below casing top which is
                                                      1 ft. above grnd level.
Pumping level
               120 ft. when pumping at
                                              10 gpm for
                                                              1 hours.
Formations Passed Through
                                            Thickness Bottom
  clay
                                              25
                                                         25
  sand
                                              5
                                                         30
  clay
                                              80
                                                        110
  gravel
                                              15
                                                        125
  limestone
                                              60
                                                        185
120432629200
                   Fykes, Charles N.
                                                            13-38N-10E
DuPage
                   Oakbrook Builders
                                                      1
Status: WATER
                                    SE SW SE
                                                   Elev:
                     permit date: 04/16/79
                                                  comp. date: 04/20/79
permit: 84665
Lambert X: 3397061
                      Lambert Y: 3184616
                                                    td: 165
producing formation:
                                    td formation:
latitude: 41.773174
                            longitude: 88.038014
Water from limestone at depth 110 to
                                         165 ft.
Screen: Diam. 0 in. Length:
                                 0 ft.
                                          Slot: 0
Casing and Liner Pipe -
     Diam. (in.)
                    Kind and Weight
                                         From(ft)
                                                      To(ft)
                      A-53 15#
                                                  0
                                                          110
Size hole below casing: 5 in.
Static level 80 ft. below casing top which is
                                                      1 ft. above grnd level.
Pumping level
               100 ft. when pumping at
                                             10 gpm for
                                                              1 hours.
Formations Passed Through
                                           Thickness Bottom
  clay
                                             60
                                                        60
  gravel
                                             50
                                                        110
  limestone
                                             55
                                                        165
120432731400
                   Fykes, Charles
                                                           13-38N-10E
DuPage
                  Pagemark Construction Co.
Status: WATER
                                                             n
                                    NE NE SE
                                                   Elev:
permit: 122631
                     permit date: 03/20/86
                                                  comp. date: 03/21/86
Lambert X: 3398296
                        Lambert Y: 3186670
                                                   td: 165
producing formation:
                                    td formation:
```

```
latitude: 41.778779
                            longitude: 88.033345
Water from limestone at depth 133 to 165 ft. Screen: Diam. 0 in. Length: 0 ft. Slot: 0
                                           Slot: 0
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                          From(ft)
                                                      To(ft)
        5
                      A-53 15 LB
                                                            134
Size hole below casing: 5 in.
Static level 70 ft. below casing top which is
                                                       1 ft. above grnd level.
                100 ft. when pumping at
Pumping level
                                               10 gpm for
                                                               1 hours.
Formations Passed Through
                                             Thickness Bottom
                                               30
                                                          30
                                                          65
  clay & gravel
                                               35
                                                         85
  gravel
                                              20
                                               30
                                                         115
  clay
  gravel
                                               18
                                                         133
  limestone
                                              32
                                                         165
                 · Bilsky, J. W.
120430132200
                                                             13-38N-10E
DuPage
                   Parklane
Status: WATER
                                     E2
                                                    Elev:
                                                               n
                                                  comp. date: 12/01/69
permit: 0
                      permit date:
                       Lambert Y: 3186954
Lambert X: 3397302
                                                    td: 140
producing formation:
                                    td formation:
latitude: 41.786860
                             longitude: 88.037097
120432493400
                  K & K Well Drilling
                                                             13-38N-10E
DuPage
                   Parklane Realty
Status: WATER
                                                               n
                                     SE
                                                    Elev:
permit: 0
                                                  comp. date: 03/01/77
                      permit date:
Lambert X: 3397351
                        Lambert Y: 3185627
                                                     td: 100
producing formation:
                                    td formation:
latitude: 41.779573
                             longitude: 88.036941
120430243400
                   K & K Well Drilling
                                                             13-38N-10E
DuPage
                   Parrish Const
Status: WATER
                                     SE
                                                    Elev:
                      permit date:
permit: 0
                                                  comp. date: 03/01/72
Lambert X: 3397351
                      Lambert Y: 3185627
                                                     td: 130
producing formation:
                                    td formation:
latitude: 41.779573
                             longitude: 88.036941
120430243500
                   K & K Well Drilling
                                                             13-38N-10E
DuPage
                   Parrish Const
Status: WATER
                                                    Elev:
permit: 0
                                                  comp. date: 03/01/72
                      permit date:
Lambert X: 3397351
                                                    td: 120
                      Lambert Y: 3185627
producing formation: latitude: 41.779573
                                    td formation:
                             longitude: 88.036941
120432374700
                   K & K Well Drilling
                                                             13-38N-10E
DuPage
                   Parrish Constr
Status: WATER
                                     SE
                                                     Elev:
                                                               n
                                                   comp. date: 05/01/74
permit: 0
                      permit date:
Lambert X: 3397351
                      Lambert Y: 3185627
                                                     td: 160
producing formation:
                                    td formation:
latitude: 41.779573
                             longitude: 88.036941
120432493500
                   K & K Well Drilling
                                                             13-38N-10E
DuPage
                   Paul Donald
Status: WATER
                                     W2 NW
                                                     Elev:
permit: 0
                      permit date:
                                                   comp. date: 12/01/76
Lambert X: 3393973
                       Lambert Y: 3188121
                                                     td: 160
producing formation:
                                    td formation:
latitude: 41.783357
                             longitude: 88.048821
```

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120430163500 Austin, Harry 13-38N-10E Pechous Edwin J DuPage Status: WATER Elev: permit: 0 permit date: comp. date: Lambert Y: 3186891 Lambert X: 3395993 td: 170 td formation: producing formation: latitude: 41.779491 longitude: 88.041811 K & K Well Drilling 120430201300 13-38N-10E Perkins W DuPage SE NW NW Status: WATER Elev: comp. date: 03/01/71 permit: 0 permit date: Lambert X: 3394287 Lambert Y: 3188468 td: 170 td formation: producing formation: latitude: 41.784296 longitude: 88.047634 120432463800 Dupage Pump 13-38N-10E Randa Clara DuPage Status: WATER E2 E2 Elev: permit: 0 permit date: comp. date: 06/01/76 Lambert Y: 3186986 Lambert X: 3397957 td: 175 producing formation: td formation: longitude: 88.034799 latitude: 41.786877 120432751400 Fykes, Charles 13-38N-10E Reily, Mary DuPage 1 1600 NL 600 WL Status: WATER Elev: 757GL permit date: 09/23/86 permit: 127038 comp. date: 09/24/86 Lambert X: 3393927 Lambert Y: 3187846 td: 205 producing formation: td formation: latitude: 41.782214 longitude: 88.049361 Water from limestone at depth 165 to 205 ft. 0 ft. Slot: 0 Screen: Diam. 0 in. Length: Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) A-53 15 LB 5 90 Size hole below casing: 5 in. Static level 90 ft. below casing top which is 1 ft. above grnd level. Pumping level 125 ft. when pumping at 10 gpm for 1 hours. Formations Passed Through Thickness Bottom top soil 5 5 clay 15 20 blue clay 28 48 gravel 27 75 blue clay 9 84 broken limestone 5 89 limestone 71 160 no record 5 165 40 limestone 205 120430292900 K & K Well Drilling 13-38N-10E DuPage Reuter Wilson Status: WATER NW Elev: permit: 0 permit date: comp. date: 08/01/72 Lambert X: 3394629 Lambert Y: 3188153 td: 140 producing formation: td formation: latitude: 41.783351 longitude: 88.046472 120430296400 K & K Well Drilling 13-38N-10E DuPage Reuter Wilson Status: WATER NW Elev: permit: 0 permit date: comp. date: 09/01/72 Lambert X: 3394629 Lambert Y: 3188153 td: 140

producing formation: td formation: latitude: 41.783351 longitude: 88.046472

120432748800 Fykes, Charles 13-38N-10E Richiusa, Sal DuPage NE NW NW Status: WATER Elev: 0 permit date: 09/04/86 permit: 126531 comp. date: 09/04/86 Lambert Y: 3189131 td: 205 Lambert X: 3394259 producing formation: td formation: longitude: 88.048063 latitude: 41.785740 205 ft. Water from limestone at depth 167 to 0 ft. Slot: 0 Screen: Diam. 0 in. Length: Casing and Liner Pipe -Kind and Weight From(ft) To(ft) Diam. (in.) A-53 15 LB 130 Size hole below casing: 5 in. 1 ft. above grnd level. Static level 65 ft. below casing top which is 10 gpm for 120 ft. when pumping at 1 hours. Pumping level Formations Passed Through Thickness Bottom 3 top soil 3 14 17 clay 32 blue clay 15 7 39 gravel 17 56 blue clay 36 92 gravel 10 102 sand 58 160 limestone 7 167 limestone & clay 38 205 limestone 13-38N-10E 120430052700 Neely, George Rietz Cons Co DuPage Elev: 1560 SL 740 EL Status: WATER permit date: comp. date: 01/01/59 permit: 0 Lambert Y: 3185884 Lambert X: 3397911 td: 170 producing formation: td formation: latitude: 41.776628 longitude: 88.034857 120430027000 Neely, George 13-38N-10E DuPage Rietz Cons Co Status: WATER 475 NL 1250 EL Elev: 754GL SE comp. date: 01/01/59 permit date: permit: 0 Lambert Y: 3186483 Lambert X: 3397380 td: 165 producing formation: td formation: latitude: 41.785550 longitude: 88.037055 120430052800 Neely, George 13-38N-10E 43 DuPage Rietz E M Status: WATER 1950 NL 740 EL Elev: 754GL comp. date: 01/01/59 permit date: permit: 0 Lambert Y: 3187691 Lambert X: 3397848 td: 170 producing formation: td formation: latitude: 41.784832 longitude: 88.038971 120430027700 Perrine William 13-38N-10E DuPage Rietz Evelyn M Status: WATER 700 SL 600 EL Elev: 750GL NE comp. date: 01/01/59 permit: 0 permit date: Lambert X: 3397988 Lambert Y: 3187687 td: 165 producing formation: td formation: latitude: 41.781589 longitude: 88.034518

120432476900 DuPage Dupage Pump Ritlewski Harry 13-38N-10E

```
Status: WATER
                                                             Elev: 0
 permit: 0 permit date:
Lambert X: 3394629 Lambert Y: 3188153
                                                          comp. date: 09/01/76
                                                             td: 160
 producing formation:
 producing formation: td formation: latitude: 41.783351 longitude: 88.046472
 120432719500 Fykes, Charles
DuPage Robison, Dave
                                                                       13-38N-10E
DuPage
Status: WATER 260 NL 1235 WL
permit: 120617 permit date: 09/30/85
Lambert X: 3394503 Lambert Y: 3189215
producing formation: td forma
latitude: 41.785961 longitude: 88.0
                                                                Elev: 750GL
                                                           comp. date: 10/08/85
                                                             td: 185
                                          td formation:
                                 longitude: 88.047160
Water from limestone at depth 112 to 185 ft. Screen: Diam. 0 in. Length: 0 ft. Slot: (
                                                 Slot: 0
Casing and Liner Pipe -
      Diam. (in.) Kind and Weight
                                                From(ft)
                                                                To(ft)
                         A-53 15 LB
                                                                 115
Size hole below casing: 5 in.
Static level 105 ft. below casing top which is
                                                                1 ft. above grnd level.
                 130 ft. when pumping at 10 gpm for 1 hours.
Pumping level
Formations Passed Through
                                                    Thickness Bottom
                                                                45
                                                      45
                                                      30
                                                                   75
  gravel
                                                                  90
                                                      15
  clay
  gravel
                                                      22
                                                                  112
  limestone
                                                      73
                                                                  185
120432529400
                     Fykes Charles & Pump
                                                                      13-38N-10E
DuPage
                      Rome Const
Status: WATER
                                           SW SE NE
                                                            Elev:
Lambert X: 3397617 permit date:
                                                           comp. date: 06/01/77
                          Lambert Y: 3187302
                                                            td: 165
producing formation:
                                          td formation:
producing formation: td formation: latitude: 41.780568 longitude: 88.035829
120432529500 Fykes Charles & Pump
DuPage Salk Jack
                                                                      13-38N-10E
SE SE N permit date:
Lambert X: 3395652 Lambert Y: 3187206
producing formation:
latitude: 41 79054
                                                            Elev: 0
                                           SE SE NW
                                                           comp. date: 04/01/77
                                                             td: 185
                                          td formation:
                                longitude: 88.042938
120432529600 Fykes Charles & Pump
                                                                      13-38N-10E
DuPage
                      Schaffstall Ed
                                                                1
Status: WATER
                                           NW SW SE
                                                             Elev:
Lambert X: 3396383 permit date:
                                                           comp. date: 12/01/77
                         Lambert Y: 3185248
                                                            td: 140
producing formation:
producing formation: td formation: latitude: 41.777691 longitude: 88.040447
                                          td formation:
120432941200 Knierim, Phil
                                                                      13-38N-10E
DuPage
                      Secrist, David
Status: WATER
                                           SW NE NW
                                                           Elev:
permit: 92-1533 permit date: 07/23/92
Lambert X: 3394943 Lambert Y: 3188500
producing formation: td formati
latitude: 41.783971 longitude: 88.045
Water from lime at depth 90 to 180 ft.
                                                          comp. date: 01/11/93
                                                            td: 180
                                          td formation:
                                longitude: 88.045582
Screen: Diam. in. Length: 0 ft.
                                                  Slot:
Casing and Liner Pipe -
      Diam. (in.) Kind and Weight From(ft)
5 PLASTIC PVC
                                                               To(ft)
                                                                     121
Size hole below casing: 5 in.
```

```
Static level 90 ft. below casing top which is 1 ft. above grnd level. Pumping level 140 ft. when pumping at 0 gpm for 0 hours.
                                              Thickness Bottom
Formations Passed Through
  top soil
                                                          2
                                                94
                                                           96
  clav
                                                24
                                                           120
  broken lime
                                                60
                                                           180
  lime
                                                               13-38N-10E
120432477000
                   K & K Well Drilling
                    Shanske Anna
DuPage
Status: WATER
                                       W2 NE
                                                      Elev:
                       permit date:
permit: 0
                                                    comp. date: 11/01/76
                          Lambert Y: 3188249
Lambert X: 3396597
                                                       td: 160
producing formation:
                                      td formation:
latitude: 41.783329
                              longitude: 88.039423
120430233800
                   Lockport Well & Pump
                                                               13-38N-10E
                                                          1
                    Shewchuck Wm
DuPage
Status: WATER
                                       NW SE SE
                                                      Elev:
                       permit date:
                                                    comp. date: 12/01/71
permit: 0
Lambert X: 3397689
                       Lambert Y: 3185311
                                                      td: 175
                                      td formation:
producing formation:
latitude: 41.777772
                              longitude: 88.035720
120432750000
                  Fykes, Charles
                                                               13-38N-10E
                                                          1
                    Spinney, Jack
DuPage
                   1300 NL 800 WL
Status: WATER
                                                        Elev:
                                                                 760GL
                   permit date: 09/12/86
permit: 126738
                                                    comp. date: 09/12/86
                                                      td: 205
                          Lambert Y: 3188156
Lambert X: 3394114
producing formation:
                                     td formation:
                              longitude: 88.048655
latitude: 41.783060
Water from limestone at depth 99 to Screen: Diam. 0 in. Length: 0 ft.
                                          205 ft.
Screen: Diam. 0 in. Length:
                                             Slot: 0
Casing and Liner Pipe -
     Diam. (in.) Kind and Weight
                                            From(ft)
                                                        To(ft)
        5
                       A-53 15 LB
                                                              100
Size hole below casing: 5 in.
Static level 80 ft. below casing top which is Pumping level 130 ft. when pumping at 10
                                                        1 ft. above grnd level.
                                                10 gpm for 1 hours.
Formations Passed Through
                                              Thickness Bottom
                                                30
                                                            30
  clay
  clay & sand
                                                22
                                                            52
  gravel
                                                24
                                                            76
                                                 9
  sand
                                                            85
                                                 9
                                                            94
  blue clay
                                                 5
                                                            99
  broken limestone
  limestone
                                               106
                                                           205
120432800300
                                                               13-38N-10E
                   Fykes, Charles N.
DuPage
                    Spinney, Jack
Status: WATER
                                       SE NW NW
                                                       Elev:
                    permit date: 10/26/87
permit: 136663
                                                     comp. date: 11/05/87
Lambert X: 3394287
                       Lambert Y: 3188468
                                                       td: 205
producing formation:
                                      td formation:
latitude: 41.783912
                              longitude: 88.047999
Water from limestone at depth 103 to
                                           205 ft.
Screen: Diam. 0 in. Length:
                                  0 ft.
                                             Slot: 0
Casing and Liner Pipe -
     Diam. (in.)
                      Kind and Weight
                                            From(ft)
                                                         To(ft)
        5
                        A-53 15#
                                                              103
Size hole below casing: 5 in.
Static level 100 ft. below casing top which is Pumping level 130 ft. when pumping at 12
                                                         1 ft. above grnd level.
                                              12 gpm for 1 hours.
Formations Passed Through
                                              Thickness Bottom
  top soil
                                                            3
                                                 3
  clay
                                                 25
                                                            28
```

blue clay sand blue clay gravel limestone	35 63 8 71 25 96 7 103 102 205
120430209000 K & K Well Drilling DuPage Stade Status: WATER SE permit: 0 permit date: Lambert X: 3397351 Lambert Y: 3185627 producing formation: td form latitude: 41.779573 longitude: 88.	mation:
120430209100 K & K Well Drilling DuPage Stade Status: WATER SE permit: 0 permit date: Lambert X: 3397351 Lambert Y: 3185627 producing formation: td form latitude: 41.779573 longitude: 88.	ation:
120432529700 Fykes Charles & Pump DuPage Stade H A Status: WATER NE NE permit: 0 permit date: Lambert X: 3398296 Lambert Y: 3186670 producing formation: td form latitude: 41.785068 longitude: 88.	comp. date: 08/01/77 td: 145 ation:
	comp. date: 09/10/77 td: 165 ation:
	rom(ft) To(ft) 0 130 ch is 1 ft. above grnd level. 10 gpm for 1 hours. Thickness Bottom 80 80 25 105 15 120 10 130 35 165
120430099000 K & K Well Drilling DuPage Steinbasser Johann Status: WATER NE NW S permit: 0 permit date: Lambert X: 3394369 Lambert Y: 3186480 producing formation: td formalatitude: 41.784948 longitude: 88.0	comp. date: 08/01/67 td: 175 ation:
120430316900 K & K Well Drilling DuPage Steinbauer John Status: WATER NE permit: 0 permit date:	13-38N-10E Elev: 0 comp. date: 04/01/73

Lambert Y: 3188281 Lambert X: 3397253 td: 150

producing formation: td formation: latitude: 41.783323 longitude: 88.037074

120432529800 K & K Well Drilling 13-38N-10E

DuPage Straub Christopher

Status: WATER E2 SE Elev:

permit date: comp. date: 08/01/78 permit: 0

Lambert Y: 3185658 Lambert X: 3398004 td: 140

producing formation: td formation: latitude: 41.779610 longitude: 88.034590

120430227700 K & K Well Drilling 13-38N-10E

Strauser Thomas DuPage

Status: WATER NW Elev:

permit date: comp. date: 10/01/71 permit: 0

Lambert Y: 3188153 Lambert X: 3394629 td: 150

producing formation: td formation: latitude: 41.783351 longitude: 88.046472

K & K Well Drilling 120432477100 13-38N-10E

DuPage Sula Al

Status: WATER Elev:

permit: 0 permit date: comp. date: 11/01/76

Lambert X: 3394629 Lambert Y: 3188153 td: 140

producing formation: td formation: latitude: 41.783351 longitude: 88.046472

120430339800 Foyle Richard 13-38N-10E

DuPage Sula T

Status: WATER ΝW Elev:

permit date: permit: 0 comp. date: 09/01/73

Lambert Y: 3188153 Lambert X: 3394629 td: 180

producing formation: td formation: latitude: 41.783351 longitude: 88.046472

120432529900 K & K Well Drilling 13-38N-10E

DuPage Tharp Robert

Status: WATER Elev: SE

permit: 0 permit date: comp. date: 10/01/78

Lambert X: 3397351 Lambert Y: 3185627 td: 180

producing formation: td formation:

latitude: 41.779573 longitude: 88.036941

120432416100 Foyle Richard 13-38N-10E

DuPage Thatcher Lee

Status: WATER E2 NW Elev: 0

permit: 0 comp. date: 01/01/75 permit date:

Lambert X: 3395285 Lambert Y: 3188185 td: 170

producing formation: td formation:

latitude: 41.783345 longitude: 88.044122

120430023100 13-38N-10E Neely, George

DuPage Thompson Leon Status: WATER 1150 SL 1150 WL

Elev: permit: 0 comp. date: 01/01/59 permit date:

Lambert X: 3394586 Lambert Y: 3185316 td: 160

producing formation: td formation: latitude: 41.775215 longitude: 88.046889

120432493600 K & K Well Drilling 13-38N-10E DuPage Toft Alex

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W2 NW Elev: Status: WATER Lambert X: 3393973 permit date: comp. date: 12/01/76 Lambert Y: 3188121 td: 160 latitude: 41.783357 td formation: producing formation: longitude: 88.048821 K & K Well Drilling 120430339900 13-38N-10E Tri County Realty DuPage Status: WATER Elev: producing formation: td forma latitude: 41.783323 Lambert Y: 3188281 permit: 0 permit date: comp. date: 10/01/73 td: 160 td formation: longitude: 88.037074 120432629400 Fykes, Charles N. 13-38N-10E Trowbridge, John DuPage 1 Status: WATER NW SE NW Elev: Lambert X: 3394970 permit date: 09/08/83 comp. date: 09/15/83 Lambert Y: 3187837 td: 205 producing formation: td formation: latitude: 41.782143 longitude: 88.045522 Water from limestone at depth 125 to Screen: Diam. 0 in. Length: 0 ft. 205 ft. Slot: 0 Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) 5 A-53 15# 125 Size hole below casing: 5 in. Static level 80 ft. below casing top which is Pumping level 100 ft. when pumping at 10 g 1 ft. above grnd level. 10 gpm for 1 hours. Formations Passed Through Thickness Bottom top soil 2 2 clay 108 110 gravel 15 125 limestone 80 205 120430027200 Harper, Jack 13-38N-10E DuPage Vance Cons Co status: WATER 1250 NL 600 EL permit: 0 permit date: Lambert X: 3398056 Lambert V. Elev: 755GL comp. date: 01/01/59 SE producing formation: latitude: 41 702401 td: 160 producing formation: td formation: latitude: 41.783431 longitude: 88.034585 Randa Wm J 120430068400 13-38N-10E Venard Richard DuPage 87 Status: WATER 1425 NL 1300 EL Elev: permit date: permit: 0 comp. date: 01/01/59 Lambert Y: 3188187 Lambert X: 3397271 td: 172 producing formation: latitude: 41.783360 td formation: longitude: 88.036940 120430068300 Neely, George 13-38N-10E DuPage Vojacek Valerian Status: WATER 800 NL 900 EL Elev: producing formation: latitude: 41 701655 permit: 0 permit date: comp. date: 01/01/60 td: 180 td formation: latitude: 41.781655 longitude: 88.038450 120432530000 K & K Well Drilling 13-38N-10E DuPage Vosoc Zoran Status: WATER SW SE SE Elev: permit: 0 permit date: comp. date: 11/01/78 Lambert X: 3397713 Lambert Y: 3184647 td: 160

td formation: producing formation: latitude: 41.774134 longitude: 88.035629

Neely, George 13-38N-10E 120430067900

10 DuPage Walz Wm

1800 SL 1250 EL Elev: 0 Status: WATER

comp. date: 01/01/60 permit: 0 permit date:

Lambert Y: 3186099 Lambert X: 3397393 td: 170

td formation: producing formation: latitude: 41.777246 longitude: 88.036755

Neely, George 13-38N-10E 120430020100

DuPage Walz Wm

Status: WATER 752GL 1050 SL 600 EL NE Elev: permit date: comp. date: 01/01/59 permit: 0

Lambert X: 3397976 Lambert Y: 3188037 td: 163

producing formation: td formation: latitude: 41.782551 longitude: 88.034553

120432635800 13-38N-10E Fykes, Charles N.

DuPage Warthen Pump Sales

NE NW NE Status: WATER Elev:

permit date: 09/26/84 comp. date: 09/28/84 permit: 115018

Lambert X: 3396888 Lambert Y: 3189260 td: 185

producing formation: td formation: latitude: 41.785980 longitude: 88.038376

Water from limestone at depth 105 to 185 ft.

Screen: Diam. 0 in. Length: 0 ft. Slot: 0

Casing and Liner Pipe -

Diam. (in.) Kind and Weight To(ft) From(ft) A-53 15# 112 5

Size hole below casing: 5 in.

Static level 110 ft. below casing top which is Pumping level 130 ft. when pumping at 10 g 1 ft. above grnd level.

10 gpm for 1 hours.

Thickness Bottom Formations Passed Through 17 17 clay gravel 88 105 ጸብ 185 limestone

13-38N-10E 120430040000 Shoemaker, Leonard

Weiss Herman DuPage

Status: WATER 175 SL 600 WL Elev: 725GL permit date: comp. date: 01/01/59 permit: 0

td: 165

td formation:

producing formation: latitude: 41 772401 longitude: 88.048976

13-38N-10E 120430323500 K & K Well Drilling

Wilson A DuPage

Status: WATER Elev: SW

Lambert X: 3394737 permit date: comp. date: 05/01/73

Lambert Y: 3185501 td: 140

td formation: producing formation: latitude: 41.779429 longitude: 88.046342

13-38N-10E 120430142400 K & K Well Drilling

Wilson A M DuPage

Elev: Status: WATER SW

comp. date: 11/01/70 permit: 0 permit date:

td: 155 Lambert X: 3394737 Lambert Y: 3185501

producing formation: td formation: latitude: 41.779429 longitude: 88.046342

120430286800 K & K Well Drilling 13-38N-10E Wilson A M DuPage Status: WATER NW Elev: permit date: permit: 0 comp. date: 06/01/72 Lambert X: 3394629 Lambert Y: 3188153 td: 140 producing formation: td formation: td formation: longitude: 88.046472 latitude: 41.783351 120432357400 K & K Well Drilling 13-38N-10E Wilson A M DuPage Status: WATER NW Elev: permit date: comp. date: 11/01/73 permit: 0 Lambert Y: 3188153 Lambert X: 3394629 td: 150 producing formation: td formation: latitude: 41.783351 longitude: 88.046472 120430068200 Neely, George 13-38N-10E Woodland Bldrs DuPage 2200 NL 600 EL Status: WATER Elev: O Lambert X: 3397997

producing for comp. date: 01/01/60 producing formation: latitude: 41 305556 td: 170 td formation: latitude: 41.785527 longitude: 88.039472 120432391200 K & K Well Drilling 13-38N-10E DuPage Wrenski Don Status: WATER NE Elev: permit: 0 permit date: comp. date: 12/01/74 Lambert Y: 3188281 Lambert X: 3397253 td: 180 td formation: producing formation: latitude: 41.783323 longitude: 88.037074 Fykes, Charles 120432710900 13-38N-10E permit: 119316
Lambert T DuPage Zeinm, Steve 1 Elev: 764GL permit date: 07/30/85 comp. date: 08/27/85 Lambert X: 3394221 Lambert Y: 3188441 producing formation: td formation: latitude: 41.783840 longitude: 88.048244 td: 205 Water from limestone at depth 120 to 205 ft. Screen: Diam. 0 in. Length: 0 ft. Slot: Slot: 0 Casing and Liner Pipe -Diam. (in.) Kind and Weight From(ft) To(ft) A-53 15 LB Size hole below casing: 5 in. Static level 80 ft. below casing top which is 1 ft. above grnd Pumping level 140 ft. when pumping at 10 gpm for 1 hours. 1 ft. above grnd level. Formations Passed Through Thickness Bottom clay 50 50 gravel 70 120 limestone 85 205 120430198000 Austin, Harry 13-38N-10E Zimmertin E DuPage Status: WATER Elev: permit: 0 permit date: comp. date: 01/01/45 Lambert X: 3395993 Lambert Y: 3186891 td: 168 producing formation: td formation: latitude: 41.779491 longitude: 88.041811 120430029200 Neely & Son 18-38N-11E DuPage -Hoffman Status: WATER 300 NL 75 WL SW 770GL Elev: permit: 0 comp. date: 01/01/59 permit date:

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Lambert X: 3398698 Lambert Y: 3186704 td: 195

producing formation: latitude: 41.778855 lon td formation: longitude: 88.031863

120430029300 Neely & Son 18-38N-11E

DuPage Hoffman

250 NL 75 WL Status: WATER SW Elev: 770GL permit date: permit: 0 comp. date: 01/01/59

td: 195

producing formation: latitude: 41 778000 td formation: longitude: 88.031868

120430068600 Neely & Son 18-38N-11E

DuPage Hoffman Bldrs 19

Status: WATER 2250 NL 75 WL Elev: permit: 0 permit date: comp. date: 01/01/60

Lambert X: 3398674 Lambert Y: 3187393 td: 175

producing formation: td formation:

latitude: 41.780755 longitude: 88.031911

120430029600 AI-Well Drilling 18-38N-11E

DuPage Morris Robert

Status: WATER 500 NL 60 WL Elev: 780GL permit date: permit: 0 comp. date: 01/01/59

td: 180

producing formation: Lambert Y: 3186504 td formalatitude: 41.778304 td formation: longitude: 88.031905

120430083000 Neely, George DuPage R K Bldrs

Status: WATER N E SWC SW NW SW Elev: permit: 0 permit date: comp. date: 07/01/67

td: 160

td formation:

producing formation: latitude: 41 37668 latitude: 41.776035 longitude: 88.032071

120430055100 Beyreis, Kenneth 18-38N-11E

Schuimacher M F DuPage 5

Status: WATER 300 SL 100 WL Elev: comp. date: 01/01/59 permit date: permit: 0

Lambert Y: 3184666 Lambert X: 3398793 td: 123

td formation:

producing formation: latitude: 41.773234 longitude: 88.031635

120430068800 Perrine William 18-38N-11E

DuPage W & H Homes Inc Status: WATER 1675 NL 75 WL Elev:

permit date: permit: 0 comp. date: 01/01/60

td: 170

producing formation: Lambert Y: 3187967 latitude: 41 792330 td formation: latitude: 41.782338 longitude: 88.031950

120430069000 Perrine William 18-38N-11E

DuPage Wick Edw

Status: WATER 2200 NL 100 WL Elev: permit: 0 permit date: comp. date: 01/01/60

Lambert X: 3398697 Lambert Y: 3187444 td: 170

producing formation: td formation:

latitude: 41.780895 longitude: 88.031823 18-38N-11E

APPENDIX G

Local Groundwater Ordinance

Article V. Cross Connections/Backflow Prevention Requirements.

(Ord. No. 3805, Amended, 12/04/95; Ord. No. 3805, Amended, 12/04/95)

25-51. Cross-connection prohibited; backflow prevention device required.

No person shall establish or permit to be established or maintain or permit to be maintained any connection of a nonpublic water supply to the public water supply of the Village, excluding any water system interconnections the Village may establish. Backflow prevention devices shall be installed where required under this Article and in accordance with Illinois Environmental Protection Agency Regulations, specifically Ill. Admin. Code, Title 35, Section 653.803.(Ord. No. 2942, § 1; Ord. No. 3301, § 2.)(Ord. No. 3473, Amended, 06/15/92; Ord. No. 3555, Amended, 04/19/93; Ord. No. 3581, Amended, 08/02/93; Ord. No. 3805, Amended, 12/04/95)

25-52. Private water wells; permit required.

- (a) It shall be unlawful for any person to dig, drill, redrill or extend, or cause to be dug, dniled, redrilled, or extended, any well, hole or other excavation in the ground for the purpose of extracting water therefrom, at any location within the corporate limits of the Village, except:
- (1) Any well authorized and intended to oc owned and operated by the Village as part of the Village's water system;
- (2) Any well situated on a zoning lot (as such term is defined and used in the Comprehensive Zoning Ordinance of the village) on which a building has been or may be lawfully constructed and occupied; provided, that no portion of such zoning lot is located within two hundred and fifty feet (as measured by the most direct route along public right of way or existing utility easements) of a water main owned by the Village that is available to provide water service to such zoning lot;
 - (3) Any well situated outside a zoning

lot; provided, that such well is not located within two hundred fifty feet (measured as provided in paragraph (2) of this section) of a water main owned by the village that is available to provide water service:

- (4) Any well intended and used exclusively for irrigation and watering of crops or landscaping or in cooling towers used in conjunction with air conditioning systems; provided, that the well shall meet the following conditions:
- (i) Such well shall not be drilled to a depth greater than two hundred feet; and
- (ii) Such well shall not be connected in any way to any water system providing water for domestic use or human consumption, including but not limited to, the Village's water system. In order to assure that water from such well is not so connected, the Village may require that a periodic bacteriological sampling may be taken of the domestic water entering any building on the property served by such well. The charge for such sampling shall be automatically added to the water bill for Village water for such building, and shall constitute an expense to the owner thereof, and
- (iii) Any such well with a column pipe up to four inches in size shall not be dug or drilled within fifty feet from any Village-owned well. Any such well with a column pipe greater than five inches in size shall not be dug or drilled within one thousand feet from any Village-owned well; and
- (iv) Such well shall be no less than fifteen feet from any publicly or privately owned water main, and
- (v) A backflow prevention device shall be installed on the water service pipe(s)/line(s) connecting any structure on the property to the public water supply.
- (vi) Such wells shall not be subject to the water conservation regulations in Section 25-5 if the owner or occupant of the property on which the well is located obtains and displays a "private well" sign. A metal sign shall be placed

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in the front yard or a paper sign in the window of the property in a location clearly visible from the street. Such signs shall be obtained from the Village: metal property signs for a cost of twenty dollars; paper window signs at no charge. Except as otherwise provided in the preceding sentences, such wells shall be subject to the water conservation regulations in Section 25-5.

(vii) If well water is used in cooling towers in conjunction with air conditioning systems, all such water shall dispense through evaporation or other appropriate means and shall not be discharged into the sanitary or storm sower systems, or otherwise discharged into the ground.

(b) It shall be unlawful for any person to dig, drill, redrill or extend, or cause to be dug, drilled, redrilled, or extended, any well, hole or other excavation in the ground for the purpose of extracting water therefrom, without (1) having first applied for and obtained a permit for such well from the Village, which permit shall not be issued unless the applicant provides satisfactory evidence to the effect that such well is permitted under the provisions of subsection (a) above; (2) establishing that permits therefor have also been issued by DuPage County, the Illinois Department of Mines and Minerals and any other governmental authority having jurisdiction thereof; and (3) certifying that such well will be in full compliance with all applicable health and safety requirements of DuPage County. Fees for the permit required in paragraph (a) hereof shall be as follows:

Work Performed	_Fee_	<u>Bond</u>	
Plan review and			
on site inspection	\$ 100.00	N/A	
Electrical inspection	6.00	NA	
Parkway opening	20.00	\$200.00	

(Ord. No. 2942, § 1; Ord. No. 3301, § 3.)(Ord. No. 3505, Amended, 12/04/95)

25-53. Backflow preventers required for certain facilities.

(a) If the director of public works or his designee determines that an industrial or commercial facility is an actual or potential hazard to the public water supply system, the owner or occupant of the property shall install a backflow prevention device on the water service pipes/lines which connect the industrial or commercial facility to the public water supply system. The following types of facilities are presumed to pose an actual or potential hazard unless the director of public works or his designee. upon certification from cross-connection control device inspector (CCCDI), determines that the building does not pose an actual or potential hazard to the public water supply: (1) hospitals, mortuaries, clinics, nursing homes; (2) laboratories; (3) sewage treatment plants, sewage pumping stations or stormwater pumping stations; (4) food or beverage processing plants; (5) chemical plants; (6) metal plating industries; (7) petroleum processing or storage plants; (8) radioactive material processing plants or nuclear reactors: (9) car washes; (10) pesticide, or herbicide or extermination plants and trucks; (11) farm service and fertilizer plants and trucks. The aforementioned listing is not exhaustive and the director of public works or his designee may determine that other facilities not listed above pose an actual or potential hazard to the public water supply system.

(b) Any property owner or occupant notified in writing of a determination that the facility poses an actual or potential hazard to the public water supply system shall within ninety days of receipt of the notice install the required backflow prevention device at his or her expense and provide the director of public works or his designee with a certificate of inspection from an approved cross-connection control device inspector (CCCDI). (Ord. No. 3301, § 4.) (Ord. No. 3805, Renumbered, 12/04/95, 25-52.1)

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APPENDIX H

R-14 / R-26 Modeling Calculations
Tier 2 SRO Calculations

Equation R-14 Solved for Cwater

	Trial I	Trial 2	Trial 3	Trial 4	Trial 5
Contaminant of Concern	PCE	TCE	DCE	VC	MC
Concentration Detected in Soil (C _{soil}) - mg/Kg:	110	8	3.3	0.046	0.04
Width of Source Area Parallel to Direction of			}		}
Groundwater Movement (W) - cm:	1,828	1.828	1,828	1.828	1.828
Henry's Law Constant App. C. Table E (H') - cm ³ wner/cm ³ pr:	0.754	0.422	0.167	1.11	0.0898
Hydraulic Conductivity (K) - cm/year:	315.4	315.4	315.4	315.4	315.4
Hydraulic Gradient (i) - cm/cm:	0.01	0.01	0.01	0.01	0.01
Volumetric Water Content in Vadose Zone Soils	0.7	0.3	0.3		0.2
App. C. Table D (Θ_{w_3}) - cm ³ $_{w_{app.}}/cm^3$ $_{soal}$:	0.3	0.3	0.3	0.3	0.3
Volumetric Air Content in Vadose Zone Soils App. C. Table D (Θ_{ss}) - cm ³ _{ss} /cm ³ _{sost} :	0.13	0.13	0.13	0.13	0.13
	ļ				
Soil Bulk Density App. C, Table D (ρ,) - g/cm³:	1.5	1.5	1.5	1.5	1.5
Organic Carbon Partition Coefficient App. C. Table E or $I(K_{\infty})$ - cm^3/g :	155	166	35.5	18.6	11.7
Organic Carbon Content of Soil Site-Specific or App. C, Table D (f_{∞}) - g/g :	0.0108	0.0108	0.0108	0.0108	0.0108
Infiltration Rate					
App. C, Table D (I) - cm/year:	30	30	30	30	30
Groundwater Mixing Zone Thickness App. C. Table D (δ_{re}) - cm:	200	200	200	200	200
. tpp. e. tubio 2 (ope) em.	200		200	200	200
Soil Water Sorption Coefficient (k _s) - cm ³ water/g _{soil} R-20 k _s = K_{∞} • f_{∞} .	1.67	1.79	0.38	0.20	0.13
Groundwater Darcy Velocity (U _{sw}) - cm/year					
R-24 U _{re} =K*i :	3.15	3.15	3.15	3.15	3.15
R-14 Predicted Concentration in Groundwater	66.075	2.007		0.631	
C _{weer} - mg/L:	56.075	3.897	5.457	0.091	0.118

Equation R-14 Solved for Cwater

Intermediate Solutions:

	Trial I	Trial 2	Trial 3	Trial 4	Trial 5
Contaminant of Concern	PCE	TCE	DCE	VC	MC
$a = \Theta_{ws} + (k_s * \rho_s) + (H' * \Theta_{as}) =$	2.90902	3.04406	0.89681	0.74562	0.501214
$b = (U_{gw}^* \delta_{gw})/(I^*W) =$	0.012	0.012	0.012	0.012	0.012
c = a*(1+b) =	2.942	3.079	0.907	0.754	0.507
$C_{\text{water}} = (\rho_{\text{s}}/c) \cdot C_{\text{soil}} =$	56.075	3.897	5.457	0.091	0.118

Equation R-26 Solved for C(x)

	Trial I	Trial 2	Trial 3	Trial 4	Trial 5
					111415
Contaminant of Concern	PCE	TCE	DCE	VC	MC
Conc. at the Source C _{renucce1} - µg/L:	56.075	3.897	5.457	91 _	118
Conc. at the Source - Cremirce REP.E.	30.073	3.07.			110
Dist. along centerline of gw plume					
in direction of gw flow (X) - cm:	610	610	610	610	610
Source width perpendicular to gw flow					
direction in horiz. plane (S _w) - cm:	2,438	2.438	2,438	2,438	2,438
Source width perpendicular to gw flow	20.49	70.40	20.49	20.49	20.40
direction in vert. plane (S _d) - cm:	30.48	30.48	30.48	30.48	30.48
First Order Degradation Constant					
App. C. Table E (λ) - day ⁻¹ :	0.00096	0.00042	0.00024	0.00024	0.012
	200	0.06	226	0.06	2.26
Hydraulic Conductivity (K) - cm/day:	0.86	0.86	0.86	0.86	0.86
Hydraulic gradient (i) - cm/cm:	0.01	0.01	0.01	0.01	0.01
Total Soil Porosity	0.42	2.42	0.42	2.42	0.42
App. C, Table D (Θ_{τ}) - cm ³ /cm ³ _{soit} :	0.43	0.43	0.43	0.43	0.43
Longitudinal Dispersivity (α,) - cm					·
R-16 α _x =0.10*X:	61.00	61.00	61.00	61.00	61.00
Towns Discounting (a)			ļ		
Transverse Dispersivity (α_r) - cm R-17 α_r = α_r /3 :	20.33	20.33	20.33	20.33	20.33
24-17-04-0473	20.33	20.33	20.55	20.55	20.33
Vertical Dispersivity (α ₁) - cm				ļ	
R-18 $\alpha_{z} = \alpha_{z}/20$:	3.05	3.05	3.05	3.05	3.05
Error Functions:			}]	ļ
$B_1 = S_a/(4*SQRT(\alpha_a*X))$	5.47	5.47	5.47	5.47	5.47
From App. C, Table G enter corresp.	4				
error function value erf(B ₁):	1	11	11	11	11
$B_2 = S_d/(2*SQRT(\alpha_r*X))$	0.35	0.35	0.35	0.35	0.35
					<u> </u>
From App. C, Table G enter corresp.					
error function value erf(B ₂):	0.38269404	0.38269404	0.38269404	0.38269404	0.38269404
Specific Discharge (U) - cm/day			ĺ		
R-19 U=K*i/Θ _τ :	0.020	0.020	0.020	0.020	0.020
R-26 Concentration at distance(X) from					
the source C _(x) - µg/L:	0.058	0.936	15.403	0.257	0.000

Equation R-26 Solved for C(x)

Intermediate Solutions:

	Trial I	Trial 2	Trial 3	Trial 4	Trial 5
Contaminant of Concern	PCE	TCE	DCE	vc	МС
$a = X/2^*\alpha_{x} =$	5	5	5	5	5
b = SQRT $(1+(4*\lambda*\alpha_x/U) =$	3.565	2.475	1.982	1.982	12,141
c = (1-b)*a =	-12.827	-7.373	-4.910	-4.910	-55.704
d = EXP(c) =	0.000	0.001	0.007	0.007	0.000
$C_{(x)} = d^*erf(B2)^*erf(B1)^*C_{(source)} =$	0.06	0.94	15.40	0.26	0.00

Datasheet: SSL Soil Remediation Objectives (mg/kg) - Industrial/Commercial

CAS No.	Chemical	Ingestion	Inhalation	Construction Worker Ingestion	Construction Worker Inhalation	Migration to Class I Groundwater	Migration to Class II Groundwater
127-18-4	Tetrachloroethylene	110.0615	144.7279	2388.488	382.9493	.28	1.4
79-01-6	Trichloroethylene	520.2909	49.37775	1224.271	1028.703	.28	1.4
156-59-2	cis-1,2-Dichloroethylene	20440	1801.007	20404.51	1801.007	3.92	11.2
75-01-4	Vinyl Chloride	3.012211	.9993116	65.36916	20.81899	.112	5599999
75-09-2	Methylene Chloride	763.0933	178.6004	12242.71	3160.595	.28	2.8

Datasheet: SSL Soil Saturation Limits (Csat) for Chemicals with Melting Point < 30 deg C

Chemical	Csat (surface) (mg/kg)	Csat (subsurface) (mg/kg)	
Tetrachioroethylene	382.9493	387.8694	
Trichloroethylene	2168.731	2232.311	
cis-1,2-Dichloroethylene	1801.007	2092.557	
Vinyl Chloride	1402.301	1371.941	
Methylene Chloride	3160.595	4343.855	

Datasheet: SSL Parameters

Parameter	Units	Value Used
AT for Ingestion of Noncarcinogens	yr	Residential = 6 Industrial/Commercial = 25 Construction Worker = ,115
AT for Inhalation of Noncarcinogens	yr	Residential = 30 Industrial/Commercial = 25 Construction Worker = .115
ATc for Carcinogens	yr	70
BW	kg	Residential = 15, noncarcinogens Residential = 70, carcinogens Industrial/Commercial = 70 Construction Worker = 70
ED for Ingestion of Carcinogens	уг	Industrial/Commercial = 25 Construction Worker = 1
ED for Inhalation of Carcinogens	ут	Residential = 30 Industrial/Commercial = 25 Construction Worker = 1
ED for Ingestion of Noncarcinogens	yr	Residential = 6 Industrial/Commercial = 25 Construction Worker = 1
ED for Inhalation of Noncarcino gens	yr	Residential = 30 Industrial/Commercial = 25 Construction Worker = 1
ED for Groundwater Ingestion	уг	Residential = 30 Industrial/Commercial = 25 Construction Worker = 1
ED for Mass-Limit Eqn.	уг	70
EF	d∕yr	Residential = 350 Industrial/Commercial = 250 Construction Worker = 30
F(x)	unitless	.194
(Infiltration Rate) (Infiltration Rate for Mass-Limit Eqn.)	m∕yr m∕yr	.3 .18
Fsoil-adj (Residential)	(mg-yr)/(kg-d)	114
Rsoll	mg/a	Residential = 200 Industrial/Commercial = 50 Construction Worker = 480
PEF (Residential) PEF (Industrial/Commercial) PEF (Construction Worker)	m3/kg m3/kg m3/kg	132000000 124000000 12400000
Q/C for PEF	(g/m2-s)/(kg/m3)	Residential = 90.8 Industrial/Commercial = 85.81 Construction Worker = 85.81
Q/C for VF	(g/m2-s)/(kg/m3)	Residential = 68.81 Industrial/Commercial = 85.81 Construction Worker = 85.81
Q/C for VF (site specific)	(g/m2-s)/(kg/m3)	97.78
T (Exposure Interval)	s	Residential = 950000000 Industrial/Commercial = 790000000 Construction Worker = 3600000
T (Exposure Interval for Mass-Limit Eqn.)	yr	30
THQ (Target Hazard Quotient)	unitless	1
TR (Target Cancer Risk)	unitless	.000001
Um	m/s	4.69
Ut ,	m/s	11.32
V	unitless	.5

Datasheet: SSL Calculated Values

Chemical	Kd (surface) (cm3/g)	Kd (subsurface) (cm3/g)	Da (cm2/s)	VF (m3/kg)	VF (m3/kg)	Cw (residential) (mg/L)	Cw (industrial) (mg/L)
Tetrachloroethylene	1.674	1.674	1.474378E-03	20533.8	2053.38	9.99999E-02	.5
Trichloroethylene	1.7928	1.7928	8.793251E-04	20533.8	2053.38	9.999999E-02	.5
cis-1,2-Dichloroethylene	.3834	.3834				1.4	4
Vinyl Chloride	20088	.20088	1.204219E-02	20533.8	2053.38	.04	.2
Methylene Chloride	.12636	.12636	1.940218E-03	20533.8	2053.38	9.999999E-02	1

Datasheet: Chemical Properties for the SSL Equations

Chemical	Solubility in Water (mg/L)	Diffusivity in Air (cm2/s)	Diffusivity in Water (cm2/s)	Henry's Law Constant (unitless)	Organic Carbon Partition Coefficient (cm3/g)
Tetrachloroethylene	200	.072	.0000082	.754	155
Trichloroethylene	1100	.079	.0000091	.422	166
cis-1,2-Dichloroethylene	3500	.0736	.0000113	.167	35.5
Vinyl Chloride	2760	.106	1.23E-06	1.11	18.6
Methylene Chloride	13000	.101	.0000117	.0898	11.7

Datasheet: Physical Soil Parameters for the SSL Equations

Parameter	Units	Value Used
Soil Bulk Density	kg/L	1.5
Organic Carbon Content (Surface Soil) Organic Carbon Content (Subsurface Soil)	g/g (unitless) g/g (unitless)	.0108 .0108
Total Soil Porosity	L/L (unitless)	.43
Air-Filled Soil Porosity (Surface Soil) Air-Filled Soil Porosity (Subsurface Soil)	L/L (unitless) L/L (unitless)	.28 .13
Water-Filled Soil Porosity (Surface Soil) Water-Filled Soil Porosity (Subsurface Soil)	L/L (unitiess) L/L (unitiess)	.15 .3
Mixing Zone Depth	m	
Aquifer Thickness	m	***
Dilution Factor	unitless	20
Hydraulic Gradient	m/m	-
Hydraulic Conductivity	m/yr	
Source Length Parallel to GW flow	m	***
Depth of Contaminant Source	m	3
Area of Contaminant Source	acres	.087
рН	unitless	7.2

Datasheet: Toxicological Properties for the SSL Equations

Chemical	RIDo (mg/kg-d)	RIC (mg/m3)	RfDs (mg/kg-d)	RfCs (mg/m3)	SFo (1/(mg/kg-d))	URF (1/(ug/m3))
Tetrachloroethylene	•		_			
Trichloroethylene	.006		.006		.011	.0000017
cis-1,2-Dichloroethylene	.01		.1			
Vinyl Chloride			•••		1.9	.000084
Methylene Chloride	.06	3	.06	3	.0075	4.7E-07

EQUATIONS USED FOR TIER 2 SROs

Table C. Appendix C 35 IAC 742

Ingestion: S-1; S-3

Inhalation: S-4; S-5; S-6; S-7; S-26; S-27

REAL ESTATE AGREEMENT

This Contract is made this 9th day of January, 2001, by and between M. C. HOLDINGS, CORP. (hereinafter referred to as "Seller") and ROSS A. JOHNSON and BARBARA R. JOHNSON (hereinafter referred to as "Purchaser").

RECITALS

- I. Seller represents that it or its nominee is the owner of real property located at 2659 Wisconsin Avenue, Downers Grove, Illinois 60515, together with all improvements thereon and appurtenances thereto, legally described in Exhibit "A" which is appended hereto and is by reference incorporated herein (hereinafter referred to as the "Premises") and known as P.I.N. 08-12-303-008.
- II. Seller desires to sell and Purchaser desires to purchase the premises upon the terms and conditions hereinafter set forth.

Now, therefore, in consideration of the recitals which are hereby specifically by reference incorporated herein and in further consideration of the mutual promises of the parties, it is hereby covenanted and agreed as follows:

1. **PREMISES**:

Purchaser agrees to purchase from Seller and Seller agrees to sell to Purchaser the premises legally described in Exhibit "A" including all property owned by Seller at this location as specifically set forth on Exhibit "B" and to cause to be granted to Purchaser or its nominee good and merchantable title thereto by Special Warranty Deed with appropriate state and county revenue stamps affixed, subject only to permitted exceptions as hereinafter defined.

2. <u>PURCHASE PRICE AND EARNEST MONEY</u>:

- A. The purchase price for the premises shall be in the sum of Two Million and no/100 (\$2,000,000.00) Dollars (hereinafter referred to as "Purchase Price"), and shall be payable in the manner and at the time hereinafter set forth.
- B. Upon execution of this Agreement:
 - 1. Upon receipt of a fully executed Agreement, the Purchaser shall deposit Fifty Thousand and no/100 (\$50,000.00) Dollars, in the form of cash or acceptable Letter of Credit as earnest money in an escrow account to be established with EPIC Savage Realty Partners. If the deposit is in the form of cash, the escrow account shall be interest bearing with interest to be paid to the Purchaser.

2. The escrowee shall be instructed to invest said earnest money in money market funds or certificates of deposit or other interest bearing accounts, and the interest earned thereon prior to disbursement to Seller or refunded to Purchaser shall be paid to Purchaser.

3. **CONTINGENCIES**:

Purchaser's obligation to perform under this agreement shall be contingent upon the following:

- A. Effective November 22, 2000, the Purchaser shall have an initial sixty (60) day feasibility period ending January 22, 2001, in which to conduct soil tests, engineering, environmental and any additional investigations deemed necessary. These investigations will be conducted at the Purchaser's expense and the Purchaser shall agree to repair any damage caused during inspections. Purchaser shall indemnify, defend and hold harmless Seller for any liabilities, claims, suits or causes of action against Seller as a result of said investigations. In the event that Purchaser, in its sole discretion, shall determine that any of Purchaser's investigations indicate that development of the premises is unsuitable, then Purchaser shall so inform Seller in writing, whereupon Seller shall forthwith refund or cause to be refunded to Purchaser the earnest money deposited hereunder and this Agreement shall thereupon terminate and become null and void and of no further force or effect.
- B. This Contract shall be subject to the Purchaser's ability to enter into a contract for the sale of Purchaser's property located at 1007 Burlington Avenue, Downers Grove, IL 60515 to the Village of Downers Grove on or before the expiration of Purchaser's feasibility period provided for in paragraph 3(A).
- C. During this initial sixty (60) day period, the Purchaser shall have the right to terminate the contract for any reason and all earnest money, together with any and all interest earned thereon shall be returned to Purchaser. Subsequent to the initial sixty (60) day period, the Purchaser's obligation to purchase the property shall be subject to Purchaser's simultaneous closing of the sale of Purchaser's property at 1007 Burlington Avenue, Downers Grove, IL 60515 to the Village of Downers Grove on or before the 9th day of February, 2001.

4. NON-SATISFACTION OF CONTINGENCIES:

In the event that satisfaction of the foregoing contingencies shall fail to occur on or before January 22, 2001, then this Agreement shall thereupon terminate at Purchaser's or Seller's option and become null and void and of no further force or effect, whereupon Seller shall cause the earnest money herewith deposited with the escrowee to be delivered by it to Purchaser.

5. <u>1031 EXCHANGE</u>:

Purchaser desires to exchange other property of like kind and qualifying use within the meaning of Section 1031 of the Internal Revenue Code of 1986, as amended, and the regulations promulgated thereunder for fee title in the property which is the subject of this contract. Purchaser expressly reserves the right to assign their rights, but not their obligations hereunder, to a Qualified Intermediary as provided in IRC Reg. 1.1031(k)-1(g)(4) on or before the closing date.

6. MORTGAGE CONTINGENCY:

This Contract is contingent upon Purchaser obtaining an unconditional written mortgage commitment (except for matters of title and survey or matters totally within Purchaser's control) on or before January 22, 2001, on terms and conditions acceptable to Purchaser. If Purchaser, having applied for the loan specified above, is unable to obtain a loan commitment and serves written notice to Seller within the time specified, this Contract shall be null and void and earnest money refunded to Purchaser upon written direction of the Parties to Escrowee. If written notice is not served within the time specified, Purchaser shall for all purposes be deemed to have waived this contingency and this Contract shall remain in full force and effect. Should Purchaser receive a mortgage commitment conditioned upon sale and/or closing of existing property, said commitment shall satisfy the terms of this mortgage contingency.

7. **SURVEY**:

Seller shall provide Purchaser with a current ALTA survey of the subject property, at Seller's expense, within thirty (30) days from the date hereof, said survey to include extended coverage and conforming to ALTA standard and bearing the certification of such surveyor to Purchaser, Seller, and the title insurer described in Paragraph 9 below or other mutually accepted title company that same was prepared in accordance with Illinois land survey standards at its own cost.

8. CLOSING PAYMENT OF PURCHASE PRICE:

On or before February 9, 2001, Purchaser shall deposit with the escrowee a sum equal to the difference between the purchase price and all sums theretofore paid or credited to Purchaser pursuant to the terms of this Agreement, and Seller shall deposit with the escrowee its Special Warranty deed conveying the premises to Purchaser or its nominee. Both parties shall further make the deposits described hereinbelow in Paragraph 9B whereupon closing hereunder shall occur (hereinafter referred to as "Closing"). Purchaser shall have the right to one (1) thirty (30) day extension of the closing date upon written notice to Seller of Purchaser's failure to meet the Section 3C contingency.

9. ESCROW: CONVEYANCES:

Upon execution of this Agreement, the parties shall enter into a deed and purchase money escrow with First American Title Insurance Company. Said escrow shall contain, in addition to the standard provisions contained in said instrument, clauses incorporating the following:

Α. First American Title Insurance Company shall forthwith cause a commitment for title insurance, Form B, covering premises to be prepared in the amount of the purchase price. Said commitments shall show good title in Seller, subject only to Schedule B exceptions numbered 1 (as to 2000 taxes), 2, 3, 4, 15 and 16 as depicted on First American Title Commitment No. DC001189 dated May 9, 2000 ("Permitted Exceptions"), a copy of which is attached hereto as Exhibit C; provided, that Seller shall cause any title exception relating to any mortgage lien to be removed on or before the date of closing. Said commitment shall contain endorsements as requested by Purchaser's lender (payable by Purchaser) and a tax parcel endorsement. Seller shall cause the title insurer to issue an extended coverage endorsement over such general title exceptions. If any such title commitment shall disclose defects, encumbrances, or exceptions other than Permitted Exceptions, Seller shall have thirty (30) days from the date of notice thereof to the escrowee to remove same. If Seller shall fail to remove same within the specified time, Purchaser may terminate this Agreement or may elect upon notice to Seller within ten (10) days after expiration of said thirty (30) day period, to take title as it then is, with the right to deduct from the purchase price liens or encumbrances of a definite or ascertainable amount, not to exceed the sum of Ten Thousand (\$10,000.00) Dollars. Purchaser, however, reserves the right not to close if said liens are not removed or insured over. If Purchaser shall fail so to elect, this Agreement shall become null and void without further action of the parties. The expense of said title commitments and the cost of premium charges of the title insurer for insurance over said general title exception or

extended coverage endorsements shall be paid by Seller, however, any endorsements required by Purchaser or Purchaser's lender, shall be paid by Purchaser. Seller shall furnish the title insurer with all documents, affidavits, and undertakings which may be necessary in order to cause good title to be conveyed to Purchaser or its nominee in compliance with this Agreement and in order to cause the title insurer to issue its title commitment or owners guarantee policy.

- B. 1. Seller shall deposit with the escrowee the following documents prior to closing:
 - a. Stamped Special Warranty Deed conveying the premises to the nominee designated in writing by Purchaser;
 - b. Transfer declarations:
 - c. ALTA statement;
 - d. FIRPTA statement:
 - e. IRPTA disclosure document, if applicable.
 - 2. Purchaser shall deposit with the escrowee the following sum and documents prior to closing:
 - a. The sum described in Paragraph 6 above by cashier's or certified check or wire transfer, plus or minus applicable prorations;
 - b. ALTA statement.
 - 3. The parties shall jointly deposit with the escrowee the following documents prior to closing:
 - a. Joint proration statement;
 - b. A copy of this Agreement.

10. **DISBURSEMENTS**:

Upon execution and delivery of a deed for the premises, Seller shall instruct the title insurer to later date its commitment for the title insurance to cover said deed in the amount of the purchase price; and, when the title insurer is prepared to issue

its owner title insurance policy to the grantee in said deed, subject to Permitted Exceptions, it shall disburse the funds held by it as follows:

- A. Pay state and county revenue stamps attached to the deed, the cost of title insurance and policy, and one-half of the escrow fees.
- B. Bill Purchaser one-half of the escrow fees.
- C. Pay to Seller the balance of the purchase price per the joint proration statement.
- D. Pay to Purchaser the balance remaining, if any.

11. SELLER'S ASSURANCES:

Seller warrants, represents and covenants the following during the pendency of this Agreement and at the time of closing:

- A. That Seller has entered into no agreement with any governmental authority and have no knowledge of any actual or proposed ordinance, statute, or agreement which has imposed or may impose any charge, liability, or financial obligation upon the premises, and that Seller shall hereafter execute no such agreement without the express written approval of Purchaser.
- B. That Seller is the owner of good and marketable title to the premises, subject to the Permitted Exceptions.
- C. That no encroachment exists over any property line of premises, except as noted on Exhibit C.
- D. That Seller has received no notice, direct or indirect, of any violation from any governmental authority or of any proposed condemnation of any portion of the premises of any special assessment thereon.
- E. That Seller shall not move any dirt from or upon the premises during the pendency of this Agreement subject to Seller's obligations under Paragraph 12, and shall forebear from using any portion thereof as a borrow pit or dump area for construction debris, rubble, or other refuse.
- F. Except as set forth in Paragraph 12, neither Seller nor, to the best knowledge of Seller, any other person has ever caused or permitted any hazardous, toxic, or dangerous waste, substance, or material (hereinafter referred to as "hazardous material") to be placed, held, located, or disposed

of on, under, or at the premises, and that no portion of the premises has ever been used (whether by Seller or, to the best knowledge of the Seller, by any other person) as a permanent or temporary dump site or storage site for any hazardous material except as disclosed by Sellers environmental reports.

12. ENVIRONMENTAL MATTERS:

Seller has provided Purchaser with copies of a Phase I Environmental Site Assessment of the Property performed by Environmental Management and Resource Consultants, Inc., under report dated May 9, 2000, and a Focused Site Investigation & Remedial Action Completion Report performed by Pioneer Environmental, Inc., under report dated November 8, 2000. Said reports identify the presence on a small portion of the Property of elevated levels of certain compounds. Seller previously caused the affected area of the Property to be excavated. The excavated material remain on site and Seller intends to dispose of same and replace the excavated material with clean fill.

In addition, Seller has applied for a "no further remediation" letter from the Illinois Environmental Protection Agency. Such NFR letter will reflect that no further environmental remediation is required at the site, and will require that any deed conveying interests in the Property reflect that no grantee may use the Property for other than commercial or industrial uses. Purchaser agrees that such a restriction contained in the Seller's deed shall be a "Permitted Exception" hereunder.

In the event that the issuance of the NFR requires the performance of additional clean up at the site, then Seller agrees promptly to undertake to have such additional work performed. If such additional work is not completed prior to the Closing, then the parties agree to close this transaction and Seller will deposit into escrow, with the title insurer as escrow agent, an amount equal to the earnest money hereunder for such purpose. Seller agrees to complete the additional work as soon as practicable and the cost of same shall be paid from the funds in escrow upon application by Seller. Upon completion of such work, and the issuance by the IEPA of its NFR, and remaining funds in escrow shall be released to Seller. The funds held in escrow shall be invested in an interest bearing account and any interest earned therein shall accrue to Seller's benefit.

From and after the Closing date or the date of the issuance of the NFR, whichever is later, Seller shall have no further responsibility to Purchaser, or to Purchaser's heirs, personal representatives, grantees, successors or assigns or to any other party including, without limitation, any party claiming by, through or under Purchaser, for the assessment, monitoring or remediation of any contamination on or at the Property and Purchaser agrees that from and after such date, Purchaser shall not bring any claim, or make any demand, in a court of law or otherwise for damages,

reimbursement, contribution, indemnification or otherwise relating to contamination on, at or migrating from the Property.

13. FIRPTA AFFIDAVIT:

That Seller shall, prior to closing, deliver to Purchaser in accordance with Section 1445 of the Internal Revenue Code and regulations promulgated thereunder, an affidavit by Seller stating under penalty of perjury, Seller United States taxpayer identification number and that Seller is not a foreign person as defined by Internal Revenue Code 1445(F)(3).

14. **DEFAULT**:

- A. It is hereby stipulated and agreed that time is of the essence of this Agreement and each and every part thereof.
- B. If Seller shall fail to perform any covenant, term, or condition of this Agreement or shall breach any warranty herein contained, and such failure or breach shall not be cured within thirty (30) days after delivery of written notice thereof to Seller from Escrowee or Purchaser, then all rights and remedies granted by law or in equity or under this Agreement shall be available to Purchaser, including causes of action for damages and specific performance.
- C. If Purchaser shall fail to perform any covenant, term, or condition of this Agreement or shall breach any warranty herein contained, and such failure or breach shall not be cured within thirty (30) days after delivery of written notice thereof to Purchaser from Escrowee or Seller, then all rights and remedies granted by law or in equity under this Agreement shall be available to Seller, including causes of action for damages and specific performance.

15. **SELLER'S COOPERATION:**

A. Seller agrees that it or its authorized agent, trustee, or attorney shall, at any time after execution of this Agreement, execute such petitions, agreements, and other instruments as Purchaser may desire or request to complete more effectively the transfer to Purchaser of the premises acquired under this Agreement. Seller shall cooperate with Purchaser in executing all applications and documents relative to Purchaser's land plans, zoning, utilities, traffic facilities, and development of the premises which may be required by Purchaser for submission to private or governmental authorities; provided that Seller shall be required to incur no financial obligation thereby.

B. Purchaser shall pay all costs expended or incurred in connection with preparation and submission of any amendment or modification of the zoning classification or any engineering plan or document required in connection therewith, and Seller shall have no responsibility thereof.

16. PURCHASER'S ENTRY: FEASIBILITY:

From and after the execution of this Agreement, Purchaser, its employees, agents, and designated representatives shall have the right to enter upon the premises or any portion thereof for the purpose of making surveys, soil tests, borings, percolation, and other tests and engineering, environmental and architectural studies, at its sole cost; provided that Purchaser shall not suffer nor permit any mechanics lien to attached to or be against or upon the premises which shall or may be superior to the rights of the Seller and save it harmless from and against any claim, obligation, liability, or expense (including, without limitation, attorney's fees and court costs) which may be asserted by any person or party arising out of or in the course of performance of any work or act hereinabove permitted.

17. **IMPROVEMENTS**:

All improvements owned by Seller and presently installed on the premises and specifically set forth on Exhibit B shall be included in the purchase price and shall be conveyed to Purchaser at the time of closing.

18. REAL ESTATE TAXES: POSSESSION:

- A. General real estate taxes for the premises shall be prorated to the date of recordation of deed thereto by the escrowee on the basis of 103% of the most recent ascertainable tax bill. Purchaser shall be solely responsible for any increased tax or tax assessments arising or accruing prior to the closing which are directly attributable to the Purchaser's zoning reclassification or zoning application.
- B. Possession of the premises shall be delivered to Purchaser upon deposit into escrow of the purchase price therefore and recordation of deed thereto.

19. **CONDEMNATION**:

In the event that, prior to the date of closing, all or any portion of the premises or any rights or easements therein shall be taken by condemnation or right of eminent domain or like process, or shall be threatened therewith, and the same, in Purchaser's opinion, would have a materially adverse impact upon its proposed development of the premises, Purchaser shall, within thirty (30) days after having received notice thereof from Seller, elect in writing to either:

- A. Continue this Agreement in full force and effect, notwithstanding such taking or threatened taking, in which case Purchaser shall continue to be required to purchase the premises. In such event, Seller shall deliver to Purchaser the summons and complaint initiating any condemnation proceedings forthwith after service thereof. Purchaser shall be entitled to appear and defend against same, and the total amount of any condemnation award made prior to closing shall be paid to Seller and applied as a credit to Purchaser at closing; or:
- B. Delete that portion of the premises condemned or threatened to be condemned from this Agreement, with a proportionate reduction in the purchase price, in which event Purchaser and Seller shall jointly appear and defend against such condemnation proceedings; or:
- C. Terminate this Agreement. Failure of Purchaser to make a written election as aforesaid shall constitute an election to terminate this Agreement.

20. BROKER'S COMMISSION:

Seller and Purchaser hereby acknowledge that EPIC Savage Realty Partners by David Friedland has acted as broker in the negotiation of this contract and that Seller shall be responsible for any broker's commission due and owing to said Broker.

21. NOTICES:

All notices required or desired to be furnished pursuant to or with respect to this Agreement shall be in writing and shall be personally served or sent by registered or certified mail, return receipt requested, postage prepaid, to the respective parties at the following addresses:

To Purchaser:

Copy to:

Ross Johnson c/o Johnson Printers James F. Russ, Jr. 4915 Main Street

1007 Burlington

Downers Grove, IL 60515

Downers Grove, IL 60515

To Seller:

Copy to:

The Morey Corp. Attn: Dana Morey 100 Morey Drive Woodridge, IL 60517

William Cotter 8182 South Cass Darien, IL 60561 Any party may change its address for purposes of service by delivery of written notice to all other parties designated above. Any notice to all other parties designated above. Any notice mailed in the manner herein specified shall be deemed received on the second business day after mailing.

22. MISCELLANEOUS:

- A. This Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, personal representatives, successors, and assigns.
- B. All warranties and representations made hereunder shall survive the closing and delivery of deed and shall remain binding upon the parties for one (1) year.

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- C. This Agreement shall not be merged into any escrow agreement.
- D. This Agreement may be executed in counterparts and all so executed shall constitute one and the same Agreement.
- E. This Agreement embodies the entire Agreement between the parties with respect to the premises. No extension or amendment of this Agreement shall be made or claimed by any party or have any force or effect whatsoever unless same shall be set forth in writing and signed by the parties.
- F. Wherever applicable, the gender of any words used in this Agreement shall be construed to include any other gender, and any words used in the singular form shall be construed as though they were used in the plural form.
- G. Any party shall have the right, as its option, to waive any covenant, warranty, term or condition of this Agreement, which the other party is obligated to perform or fulfill; provided that any such waiver shall be in writing and delivered to the other party.
- H. This Agreement shall be construed under the laws of the State of Illinois.
- I. Time is of the essence of this Agreement.
- J. Seller agrees to deliver this Agreement to buyer on the same date of Seller's execution of said Agreement.

IN WITNESS WHEREOF, the parties have executed and delivered this Agreement in duplicate on the day of year first above written.

SELLER:

M. C. HOLDINGS, CORP.

by: _

ROSS A TO

PURCHASER:

BARBARA R. JOHNSON

EXHIBIT A

LEGAL DESCRIPTION

LOT 32 AND 33, IN ELLSWORTH PARK UNIT NO. 5, BEING A SUBDIVISION IN THE SOUTHWEST 1/4 OF SECTION 12, TOWNSHIP 38 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JANUARY 10, 1962 AS DOCUMENT R62-993, IN DUPAGE COUNTY, ILLINOIS

COMMONLY KNOWN AS:

2659 WISCONSIN AVENUE

DOWNERS GROVE, ILLINOIS 60561

P. I. N.:

08-12-303-008

EXHIBIT B

Personal Property

No items as of Date of Contract.

EXHIBIT C

[Attached]

FIRST AMERICAN TITLE INSURANCE COMPANY COMMERCIAL ADVANTAGE 27775 DIEHL ROAD, SUITE 200, WARRENVILLE, IL 60555

ALTA Commitment Schedule C

File No.: DC001189

LEGAL DESCRIPTION:

LOTS 32 AND 33, IN ELLSWORTH PARK UNIT NUMBER 5, BEING A SUBDIVISION IN THE SOUTHWEST 1/4 OF SECTION 12, TOWNSHIP 38 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JANUARY 10, 1962 AS DOCUMENT NUMBER R62-993, IN DUPAGE COUNTY, ILLINOIS.

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FIRST AMERICAN TITLE INSURANCE COMPANY COMMERCIAL ADVANTAGE 27775 DIEHL ROAD, SUITE 200, WARRENVILLE, IL 60555

ALTA Commitment Schedule B

File No.: DC001189

Schedule B of the policy or policies to be issued will contain the exceptions shown on the inside front cover of this Commitment and the following exceptions, unless same are disposed of to the satisfaction of the Company:

1. GENERAL TAXES FOR THE YEARS 2000, 2001 AND SUBSEQUENT YEARS.
TOTAL TAXES FOR THE YEAR 1999 IN THE AMOUNT OF \$32,474.84 IS PAID.
GENERAL TAXES FOR THE YEARS 2000 AND 2001 ARE NOT YET ASCERTAINABLE OR PAYABLE.

TAX NO.:08 12 303 008

✓2. EASEMENT FOR PUBLIC UTILITIES AS DISCLOSED BY THE PLAT OF SUBDIVISION RECORDED AS DOCUMENT R62-993 ON JANUARY 10, 1962.

(AFFECTS THE WESTERLY 10 FEET OF LOTS 32 AND 33; THE SOUTH 5 FEET OF LOT 32; AND THE NORTH 5 FEET OF LOT 33)

3. BUILDING SETBACK LINE AS ESTABLISHED, RECORDED JANUARY 10, 1962 AS DOCUMENT R62-993.

(AFFECTS NORTHERLY 50 FEET OF LOT 32; AND THE EASTERLY 50 FEET OF LOTS 32 AND 33; AND THE SOUTHERLY 50 FEET OF LOT 33)

✓4. EASEMENT IN FAVOR OF COMMONWEATH EDISON COMPANY AND ILLINOIS BELL TELEPHONE COMPANY, AND/OR THEIR SUCCESSORS IN INTEREST, FOR POLE LINES, CONDUITS AND MAINTENANCE PURPOSES GRANTED BY DOCUMENT R66-11065, RECORDED ON MARCH 31, 1966, AND THE TERMS AND CONDITIONS THEREOF.

(AFFECTS THE SOUTHERLY 10 FEET OF LOT 33)

- 5. MORTGAGE DATED JULY 26, 1996 AND RECORDED JULY 29, 1996 AS DOCUMENT NUMBER R96-124755 MADE BY MC HOLDINGS CORP., AN ILLINOIS CORPORATION TO AMERICAN NATIONAL BANK AND TRUST COMPANY OF CHICAGO, A NATIONAL BANKING ASSOCIATION TO SECURE A NOTE FOR \$1,372,000.00.
- 6. ASSIGNMENT OF RENTS AND LEASES MADE BY MC HOLDINGS CORP., AN ILLINOIS CORPORATION, TO AMERICAN NATIONAL BANK AND TRUST COMPANY OF CHICAGO, A NATIONAL BANKING ASSOCIATION, RECORDED JULY 29, 1996 AS DOCUMENT R96-124756.
- 7. FINANCING STATEMENT EVIDENCING AN INDEBTEDNESS FROM MC HOLDINGS CORPORATION, DEBTOR, TO AMERICAN NATIONAL BANK AND TRUST COMPANY OF CHICAGO, SECURED PARTY, FILED ON AUGUST 12, 1996 AS NUMBER 96U2562 AND RECORDED AS R96-132197.

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- 8. MORTGAGE DATED JUNE 12, 1998 AND RECORDED AUGUST 21, 1998 AS DOCUMENT R98-171431 MADE BY MC HOLDINGS CORP., AN ILLINOIS CORPORATION TO AMERICAN NATIONAL BANK AND TRUST COMPANY OF CHICAGO TO SECURE AN INDEBTEDNESS IN THE ORIGINAL PRINCIPAL AMOUNT OF \$7,000,000.00.
- 9. ASSIGNMENT OF RENTS DATED JUNE 12, 1998 AND RECORDED AUGUST 21, 1998 AS DOCUMENT R98-171432
- 10. UPON A CONVEYANCE OR MORTGAGE OF THE LAND, A CERTIFIED COPY OF PROPER RESOLUTIONS PASSED BY THE AUTHORIZED REPRESENTATIVE(S) OF THE PARTY IN TITLE AUTHORIZING THE EXECUTION OF THE DEED OF CONVEYANCE OR MORTGAGE SHOULD BE FURNISHED.

MC HOLDINGS, INC.

11. THE CERTIFICATE OF AUTHORITY TO DO BUSINESS IN THE STATE OF ILLINOIS OF THE FOLLOWING CORPORATION SHOULD BE PRODUCED, AND THIS COMMITMENT IS SUBJECT TO SUCH FURTHER EXCEPTIONS, IF ANY, AS MAY THEN BE DEEMED NECESSARY.

MC HOLDINGS, INC.

- 12. UPON MORTGAGE OF THE LAND, A CERTIFIED COPY OF PROPER RESOLUTIONS PASSED BY THE AUTHORIZED REPRESENTATIVE(S) OF THE CABLE-COM TECHNOLOGIES, INC. AUTHORIZING THE EXECUTION OF THE DEED OF CONVEYANCE OR MORTGAGE SHOULD BE FURNISHED.
- 13. EXISTING UNRECORDED LEASES, IF ANY, AND RIGHTS OF PARTIES IN POSSESSION UNDER SUCH UNRECORDED LEASES.
- 14. RELATIVE TO THE DELETION OF STANDARD EXCEPTIONS 1 THROUGH 5, WE SHOULD BE FURNISHED THE FOLLOWING:
- A) A SWORN STATEMENT DISCLOSING ALL PARTIES IN POSSESSION OF THE LAND, INCLUDING PARTIES IN POSSESSION UNDER UNRECORDED LEASES AND THE TERMS AND PROVISIONS THEREOF; OPTIONS; AND UNRECORDED CONTRACTS TO PURCHASE THE LAND.
- B) INTENTIONALLY OMITTED. 05/09/2000 WJR.
- C) AN ALTA EXTENDED COVERAGE POLICY STATEMENT. IF CONSTRUCTION HAS TAKEN PLACE WITHIN THE LAST SIX MONTHS, THE FOLLOWING SHOULD BE PRODUCED: SATISFACTORY EVIDENCE OF THE PAYMENT IN FULL OF THE COST OF FURNISHING SERVICES, LABOR AND MATERIALS IN CONNECTION WITH ANY IMPROVEMENTS MADE ON THE LAND. THIS EVIDENCE SHOULD CONSIST OF SWORN CONTRACTOR'S AND SUBCONTRACTOR'S AFFIDAVITS, TOGETHER WITH ALL NECESSARY WAIVERS OF LIEN.
- NOTE: IF ANY DOCUMENT REFERENCED HEREIN CONTAINS A COVENANT, CONDITION OR RESTRICTION VIOLATIVE OF 42 USC 3604(c), SUCH COVENANT, CONDITION OR RESTRICTION TO THE EXTENT OF SUCH VIOLATION IS HEREBY DELETED.
- 1/5. ENCROACHMENT OF ONE STORY BRICK BUILDING ONTO THE UTILITY EASEMENT AS SET FORTH IN EXCEPTION NUMBER 2 AND AS DELINEATED ON THE SURVEY EXECUTED BY GENTILE AND ASSOCIATES, INC. DATED APRIL 06, 2000 ORDER NUMBER 00-17533.

(ENCROACHMENT ENDORSEMENT #2 IS APPROVED FOR THE OWNERS AND LOAN POLICY)

CY6. VIOLATION OF THE BUILDING SET BACK LINE OF ONE STORY BRICK BUILDING BY .27 FEET AS DELINEATED ON THE SURVEY EXECUTED BY GENTILE AND ASSOCIATES, INC. DATED APRIL 06, 2000 ORDER NUMBER 00-17533.

(RESTRICTION ENDORSEMENT #4 IS APPROVED FOR THE OWNERS AND LOAN POLICY)

END OF SCHEDULE B

First . nerican Title Insurance C. Apany

	Commercial Adv	vantage				
	Settlement State	ement				
Escrow Number	DC001189					
Settlement Date	March 12, 2001	March 12, 2001				
Proration Date	March 12, 2001					
Seller	MC Holdings Corp.,	an Illinois Corpor	ation			
Buyer	Ross A. Johnson ar	nd Barbara R. Joh	nson			
Property	2659 Wisconsin Av	enue				
	Downers Grove, IL					
	Buyer Seller					
Settlement Items	Charges (\$)	Credits (\$)	Charges (\$)	Credits (\$)		
Purchase Price	(2,000,000.00)	i		2,000,000.00		
2000/2001 R.E. Tax Proration		39,955.04	(39,955.04)			
Survey Reimbursement: O'Brien, O'Rourke			(425.00)			
Commission:Epic/Savage Realty Partners			(100,000.00)			
Mortgage Payoff: American National Bank'			(535,042.02)			
Title Insurance-Owners Policy			(1,800.00)			
Deed & Money Escrow Fee	(575.00)		(575.00)	-		
State & County Revenue Stamps			(3,000.00)			
Recording Fees	(38.50)		(56.50)			
Endorsement			(75.00)			
1031 Exchange Fee to First American Title	(2,000.00)					

Subtotal Buyer Charges/Credits	(2,002,613.50)	39,955.04		
Subtotal Seller Charges/Credits			(680,928.56)	2,000,000.00

Net Due from Buyer/to Seller (1,962,658.46) 1,319,071.44 Accepted By: Buyer: Ross A. Johnson and Barbara Johnson Seller? MC Holdings Corp., an Illinois Corporation

CLOSING STATEMENT

SELLER:

MC HOLDINGS CORP., an Illinois corporation

BUYER:

ROSS JOHNSON and BARBARA JOHNSON

PROPERTY.

2659 Wisconsin Avenue. Downers Grove, IL 60517

CLOSING DATE:

12-Mar-01

	DEBIT SELLER	CREDIT SELLER
Sale Price:		\$2,000,000.00
Buyer's Earnest Money Deposit:	\$0.00	
Real Estate Tax Credits (@103%):		•
[01/01/00 thru 3/12/01 - 436 days		
@ \$ 91.64 per day]	\$39,955.04	
Title Insurance Premium:	S1 -800.0 0 /	875.00
Survey (Reimburse to O'Brien O'Rourke & Hogan):	\$425.00	
State of Illinois Transfer Tax:	\$2,000.00	
County Transfer Tax:	\$1,000.00	
Recording charges:	\$3 0:0 0 S	6.50
Closing Fee (1/2):	\$575.00	
American National Bank, per payoff letter	\$535,042.02	
Broker's commission:	\$100,000	
TOTALS:	\$680,827.06	\$2,000,000.00
	01.44	ſ
CASH TO SELLER TO BALANCE:	\$1,319,1 72.64	•
CELLED DECARITURATION.		
SELLER RECAPITULATION:	\$0.00	
Earnest Money Deposit:	\$0.00 \$1,319, 172:94 9	71.44
Plus: Cash to Balance from Above:		
Less: Balance of Broker's Commission: Total to Seller:	\$0.00	<i>371.44</i> \$1,319,1 7 د
Total to Seller:	=	Ψ1,010,194

Accepted:

MC HOLDINGS CORP., an Illinois corporation

For Seller

For Buyer

Corporate Offices

312-467-2000

Chicago, Illinois January 30, 1996

The Morey Corporation Mr. Douglas E. Cunningham 2659 Wisconsin Avenue Downers Grove, IL 60515-0719

RE: MONTGOMERY WARD - DOWNERS GROVE, IL PARKING LOT LEASE RENT INCREASE

Dear Mr. Cunningham:

Your letter of January 19, 1996 was referred to me for handling. According to the terms of our Lease dated February 5, 1980 and the First Supplemental Agreement dated December 29, 1989, our rent shall be increased per section 5 during the option period 10/1/95 thru 9/30/2000. Our fixed rent during this further extended term shall be adjusted upward at the commencement of the extended term by the percentage change in the CPI since the commencement of the extended term, but in no event shall rent be increased by more than 75%.

Below you will find our calculation for this increase using the following indexes:

CPI-U (82 Series) $\frac{10/95}{10/90} \frac{153.7}{133.5} = 15.13$ % Increase

Current monthly rent $$2,141.67 \times 15.13\% = $2,465.70 \text{ mo.}$

I have adjusted our rent retroactively to 10/1/95 to the new monthly amount of \$2,465.70. Our check in the amount of \$1,620.15 representing the rent adjustment for period 10/1/95 thru 2/29/96 shall be forthcoming in about ten days. Please note your records.

Should you have any questions, feel free to contact me at #312/467-7798.

Sincerely,

Barbara Gianfrancesco, Supr.
Corporate Lease Accounting, 7-3

cc: Chuck Jensen

/db

MOR 000232

<u>MEMORANDUM</u>

TO:

DOUG CUNNINGHAM

FROM:

BILL COTTER

REGARDING:

MONTGOMERY WARDS PARKING LOT LEASE _ 7

DATE:

FEBRUARY 8, 1996

I received the "First Supplemental Agreement" and, as we had discussed, it appears that five years ago TMC in fact agreed to maintain the tenant's rent at the prior rate through 1995. Since this is true, B. Gianfrancesco's analysis in her January 30, 1996 letter appears accurate. We had talked at an earlier time about the likelihood of the rent increase being 75% (the cap set out in the lease); we were not aware at that time of the 1990 supplemental agreement.

B. Gianfrancesco's computation of the increase in rent uses the CPI-U index, which is the consumer price index for all urban consumers, and is only one of several such indices maintained by the US Bureau of Labor Statistics. The CPI-U is a widely-used index, although there are others (for example, relating to specific geographic areas, such as the Chicagoland area, or relating to specific industries, such as manufacturing) that are also published. However, the various indices do tend to track very closely, and the use of one index over another for our purposes would result in only insignificant changes in the rent adjustment.

Finally, we talked about the January 11, 1995 letter from Chuck Jensen. While it is clear that he appeared to labor under the impression that the rent increase would be 75%, his letter is truly a simple offer to modify the terms of the existing lease, which offer was not accepted by TMC. In any contested dispute over the terms of the lease, I suspect that this letter would be disregarded in favor of simply construing the actual lease documents.

If you have any questions, please give me a call.

312-467-2000

January 11, 1995

THE MOULE CORP.

Scott Morey
The Morey Corporation
2659 Wisconsin Avenue
Downers Grove, IL 60515

RE: Parking Lot Lease Renewal
Montgomery Ward Product Service Facility #2701
Downers Grove, IL

Dear Scott:

1. 1. 1

10.30

I am the regional property manager in the real estate department of Montgomery Ward responsible for renewal of the lease for the above captioned property.

We are presently in the first of two (2), five (5) year renewal options. The date for the renewal of our remaining 5 year option is on or before March 31, 1995, based on 180 days prior notice. The lease is scheduled to expire on September 30, 1995. If renewal occurs, the rent is scheduled to increase to 75% of present rent.

The purpose of this letter is to offer an alternative to the upcoming renewal terms and significant rent increase. This is necessary, as our Product Service department is presently going through some major strategic changes. The areas serviced by this particular facility may be affected.

In an effort to develop some flexibility until the Product Service strategy has been fully developed, it is necessary to maintain a presence in Downers Grove.

Therefore, I would like to propose the following:

	Current _Terms_	Lease <u>Terms</u>	Proposed Terms
Term:	4/1/90 - 9/30/95	(5 yrs.) 10/1/95 - 9/30/2005	(5 yrs.) 10/1/95 - 9/30/2005 (Montgomery Ward would have the right to terminate the lease after the 2nd year, upon 90 days prior notice.)
Rent:	\$25,700/per year	\$44,975/year	\$35,338 per year

All other terms and conditions of the lease would remain the same.

Based on the modified terms above, the landlord is guaranteed a rent increase and Montgomery Ward has the flexibility it requires, while developing a long-term strategy.

After you have had a chance to review the aforementioned proposal to the lease renewal terms, please call me at (312) 467-6245 or send any correspondence to the address on the letterhead.

I will need time to prepare a proposal for management's review and approval, so any efforts on your part to expedite the handling of this matter would be most appreciated.

Regards,

-794 **-**9

Chuck Jensen

Regional Property Manager

cc: G. Reinhold

UNITED STATES BANKRUPTCY COURT DISTRICT OF DELAWARE

In re: Jointly Administered

Case No. 97-1409 (PJW)

Montgomery Ward Holding Corp.,

a Delaware corporation, et al., Chapter 11

Debtors.

NOTICE OF COMMENCEMENT OF CASES UNDER CHAPTER 11 OF THE BANKRUPTCY CODE AND MEETING OF CREDITORS PURSUANT TO SECTION 341 OF THE BANKRUPTCY CODE

COMMENCEMENT OF CASES: On July 7, 1997, the entities listed below (collectively, the "Debtors") filed voluntary petitions under chapter 11 of title 11 of the Bankruptcy Code, 11 U.S.C. §§ 101-1330 (the "Bankruptcy Code"). Orders for relief have been entered. These cases are being jointly administered under Case No. 97-1409 (PJW).

Tax I.D. Number

36-3084291	American Delivery Service Company, a Delaware corporation
36-2825046	Barretward Properties Co., Inc., a Maryland corporation
59-3090024	Brandywine DC, Inc., a Florida corporation
36-2891263	Brandywine Properties, Inc., a Delaware corporation
36-2824566	Brettward Properties Co., Inc., a Maryland corporation
68-0132144	Continental Transportation, Inc., a Delaware corporation
13-2739099	First Mont Corporation, a Delaware corporation
36-2694308	Fourth Wycombe Properties, Inc., a Delaware corporation
36-3087208	Gabeward Properties Corporation, a Delaware corporation
36-3889298	Garden Grove Development Corporation, a Delaware corporation
36-2765064	Huga Realty Inc., a Delaware corporation
36-2992912	Jefferson Stores, Inc., a Nevada corporation
36-2990290	Joshward Properties Corporation, a Delaware corporation
36-3765820	JRI Distributing, Inc., a Delaware corporation
04-2075221	Lechmere, Inc., a Massachusetts corporation
36-4012630	Lechmere Development Corporation, a Delaware corporation
36-2710736	Marcor Housing Systems, Inc., a Delaware corporation
36-3419870	Maryward Properties Corporation, a Delaware corporation
36-3888749	MF Nevada Investments, Inc., a Delaware corporation
36-2824191	Michaelward Properties Co., Inc., a Maryland corporation
13-2889945	Greenward Associates, a Connecticut limited partnership
13-2854910	Northward Associates, a Connecticut limited partnership
36-2659374	Montgomery Ward & Co., Inc., an Illinois corporation
36-2671979	Montgomery Ward Development Corporation, a Delaware corporation
36-3571585	Montgomery Ward Holding Corp., a Delaware corporation
36-2768233	Montgomery Ward International, Inc., a Delaware corporation
51-0316189	Montgomery Ward Land Corporation, a Delaware corporation
36-2803793	Montgomery Ward Properties Corporation, a Delaware corporation
36-2480623	Montgomery Ward Realty Corporation, a Delaware corporation
36-28 8 6140	Montgomery Ward Securities, Inc., a Delaware corporation
36-3888628	MPI, Inc., a Delaware corporation
41-1708420	Montgomery Ward Direct L.P., a Delaware limited partnership
36-3802471	MW Direct General, Inc., a Delaware corporation
36-3802472	MW Direct Limited, Inc., a Delaware corporation
36-3025070	M-W Fairfax Properties, Inc., a Virginia corporation
36-3889299	MW Land Corporation, a Delaware corporation
84-0507359	M-W Prestress, Inc., a Colorado corporation
36-2480622	M-W Properties Corporation, a Delaware corporation
36-2083357	M-W Restaurants Realty Corporation, a Delaware corporation
36-3036535	National Homefinding Service, Inc., a Delaware corporation
36-3889301	998 Monroe Corporation, a Delaware corporation
36-2825045	Paulward Properties Co., Inc., a Maryland corporation
84-0423162	R M P Development Corporation, a New Mexico corporation

BAUER & HOTTE, P. C. ATTORNEYS AT LAW 110 SCHILLER STREET

ELMHURST, ILLINOIS 60126

ROBERT W. HOTTE James O. Hauer TERRACE 4-8960 AREA CODE 812

March 11, 1980

Montgomery Ward & Co. Regional Law Department P. O. Box 7337 Chicago, Illinois 60608

Attn: Mr. Kent Kerr

Re: Montgomery Ward Lease

Ellsworth Park Unit #5

Downers Grove, IL

Dear Mr. Kerr:

As you will recall, we represent the Downers Grove National Bank and Trust Company as trustee under Trust # 78-309 (The Morey Corporation) in regard to the proposed Lease for the above-captioned premises.

It is my understanding that Montgomery Ward and Company has not as yet signed the Lease and will not do so until the lease for the adjoining parcel has been fully executed.

As you are aware, the proposed Lease with my client provides for the completion of the improvements by June 1, 1980. Obviously, that date will not be realistic if there is any further delay in the execution of the Lease.

As you are further aware, the cost of construction increases almost daily. We will expect that the Lease will be executed in the near future or the terms will have to be renegotiated.

Very truly yours,

BAUER & HOTTE, P. C.

James G. Bauer

CC: / The Morey Corp, Attn: Ed Cunningham

MAI. 12 1980

MOR 000238

BAUER & HOTTE, P. C. ATTORNEYS AT LAW 110 SCHILLER STREET ELMHURST, ILLINOIS 60126

Robret W. Hotte James G. Bauer TERRACE 4-8960 AREA CODE 312

January 14, 1980

The Morey Corporation 2659 Wisconsin Avenue Downers Grove, IL 60515

Attn: Mr. Edward J. Cunningham

Re: Montgomery Ward Lease

Dear Mr. Cunningham:

Enclosed please find response received from Montgomery Ward in regard to my recent inquiry as to the status of the proposed Lease.

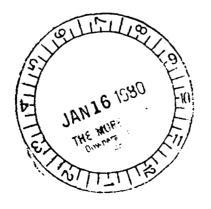
I will keep you advised.

Very truly yours,

BAUER & HOTTE, P. C.

James G. Bauer

JGB:ba Encl.





The Morey Torporation

September 14, 1979

Montgomery Ward P.O. Box 7337 Chicago, Illinois 60680

Attn: Greg Palka

Northcentral Regional Real Estate Dept.

Gentlemen:

We are pleased to submit for your consideration the following details concerning rental of parking facilities for your proposed service center in our area.

The area involved would consist of the approximately 48,667 square feet as discussed and would be made ready for your use in accordance with drawing submitted on your visit in the last week of August. Wards would supply on a no charge basis, the fuel tank, pump and associated hardware and fittings.

The lease period shall be for 10 years. The two 5 year options to extend will be acceptable subject to mutual agreement of the effect of ravaging inflation.

The Morey Corporation shall be held loss free of any maintenance costs during all periods and a certification of insurance shall be furnished by Montgomery Ward to hold The Morey Corporation free of any and all other claims against it.

The Realestate Tax for this portion of land was \$1346.54 for 1978 and this amount shall be considered as the base figure included for the first three years of rental. The Morey Corporation shall continue to pay this tax. The rental shall be changed upward or downward for years 4 through 10 on a dollar for dollar adjustment basis of this base tax.

The rental shall be \$28,200.00 per year, payable on a monthly basis.

We understand from our contractor, that should we have your order to proceed by the first of October, we can be ready for your January 1, 1980 use.

The precise language of our lease agreement shall, of course, be the product of both of our legal counsels.

We shall await your instructions.

Very truly yours, THE MOREY CORPORATION

Edward J. Cunningham

EJC/jd

cc: Steve Goode - Kaplan Goode James Bauer - Bauer & Hotte

THE MOREY CORPORATION MONTHLY DIRECT LABOR ANALY AS

MOR 000241

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Corporate Offices Montgomery Ward Plaza Chicago, Illinois 60671

Montgomery Ward

Jensen 25-S



Scott Morey
The Morey Corporation
2659 Wisconsin Avenue
Downers Grove. IL 60515

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September 23, 1980

Montgomery Ward and Company Corporate Facilities Department One Montgomery Ward Plaza Chicago, Illinois 60671

Attn: Robert Bordelon

Gentlemen:

We wish to confirm our telephone conversation of this date to report completion of the parking lot for your new Downers Grove Service Facility.

We believe all to be in compliance with the terms of the lease and trust you will now be able to set the wheels in motion for payment of monthly rental.

We thank you for your help and cooperation on this project and hope all goes well with this operation in our area.

Very truly yours,

THE MOREY CORPORATION

Edward J. Cunningham

EJC/jd

BAUER & HOTTE, P. C. ATTORNEYS AT LAW 110 SCHILLER STREET

ELMHURST, ILLINOIS 60126

ROBERT W. HOTTE JAMES G. BAUER

January 4, 1980

TELEPHONE TERRACE 4-3960 Area Code 012

Montgomery Ward & Co. Regional Law Department P. O. Box 7337 Chicago, IL 60608

Attn:

Mr. Kent Kerr

Re:

Montgomery Ward Lease Ellsworth Park Unit #5 Downers Grove, Illinois

Dear Mr. Kerr:

On November 27, 1979, I forwarded to you certain suggested changes and/or deletions in regard to a lease tendered for the above-captioned property.

Please advise.

Very truly yours,

James G. Bauer

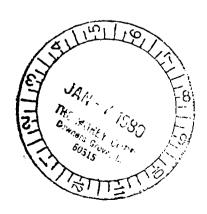
BAUER & HOTTE, P.C.

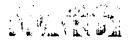
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JGB:pb

cc:

The Morey Coro.
Downers Grove, IL





January 9, 1980

Mr. James G. Bauer, Esq. Bauer & Hotte, P.C. 110 Schiller Street Elmhurst, Illinois 60126

In Re: Montgomery Ward Lease

Ellsworth Park Unit #5
Downers Grove, Illinois

Dear James:

Thank you for your letter of January 4, 1980. Your client's lease is acceptable to us, and is being prepared for execution.

However, we are still negotiating some minor points of the lease for the adjaining premises, and that delay has caused us to put off execution of your client's lease until both can be executed at the same time. We are hopeful of doing this within the next seven to ten days.

I will advise further shortly.

Very truly yours,

MONTGOMERY WARD & CO., INCORPORATED

J. Kent Kerr General Attorney

JKK:hlf

cc: Greg Palka

July 8, 1980

Olivieri Brothers, Inc. 800 East 120th St. Chicago, Illinois 60628

Attn: Henry J. Olivieri Sr.

Dear Mr. Olivieri:

We wish to confirm our telephone conversation of this date authorizing you to proceed with the installation of the parking lot in accordance with your proposal of May 21 and our subsequent letters and telephone instructions from Montgomery Ward.

We understand the total amount of this contract to be \$41,549.00.

The above amount will be paid by us to your firm upon receipt of an approval from Montgomery Ward.

We understand you estimate completion of this lot within 3-4 weeks.

We also understand that you will shortly submit a separate proposal for work on our company parking lot shortly.

Very truly yours,

THE MOREY CORPORATION

Edward J. Cunningham

EJC/jd



REKSTAD BUILDERS, INC.

Box K-5100 Williams Street, Downers Grove, Illinois 60515 Telephone: 312/968-0050

September 11, 1979

The Morey Corporation 2659 Wisconsin Avenue Downers Grove, 111. 60515

Attn: Mr. Ed Cunningham

Re: Improvements to Existing Gravel Parking Lot

Gentlemen:

For the sum of fifty-two thousand six hundred thirty-three and no/100 dollars (\$52,633.00) we will provide all labor, material and equipment to make improvements to existing parking lot as discussed. Our proposal excludes the following items:

- 10,000 gallon tank and gas pump to be furnished by others.
- 2) Electric required for pump and lighting is to terminate at junction box at exterior of existing building.
- 3) Fencing to have gate only at main entrance.
- 4) No cost for any required permits.

Respectively submitted,

REKSTAD BUILDERS, INC.

Daniel S. Rekstad

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Quentin E. Rekstad President Ernest P. Wasilevich Vice President Charles T. Collar Secretary-Treasurer

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REKSTAD BUILDERS, INC.

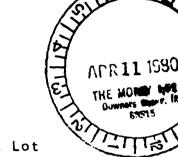
Box K-5100 Williams Street, Downers Grove, Illinois 60515 Telephone: 312/968-0050

> The Morey Corporation 2659 Wisconsin Avenue Downers Grove, Illinois 60515

Attn: Mr. Ed Cunningham

Re: Improvements to Existing Gravel Storage Lot

Bid of September 11, 1979 Revised



April 9, 1980

Gentlemen:

For the sum of fifty-eight thousand two hundred sixty-four and no/100 dollars (\$58,264.00) we will provide all labor, material and equipment to make improvements to existing storage lot as discussed. Our proposal is based on the following:

- 1) 10,000 gallon tank and gas pump to be furnished by others.
- Electric required for pump and lighting is to terminate at junction box at exterior of existing building.
- 3) Fencing to have gate only at main entrance.
- 4) All costs based on September 1979 discussions with Village Engineering Department regarding permits.

Respectfully submitted,

REKSTAD BUILDERS, INC.

Daniel S. Rekstad

sk

Quentin E. Rekstad President Ernest P. Wasilevich Vice President Charles T. Collar Secretary-Treasurer KAPLAN, GOODE & COMPANY • 2 North Riverside Plaza • Chicago, Illinois, 60606 • (312) 648-1900



Real Estate • Industrial • Commercial

IRVING H. GOODE HOWARD E. KAPLAN LEONARD H. SULTAN KEVIN R. FARRELL ROBERT K. BLEY MARK B. GOODE STEVEN J. GOODE THOMAS A. KELLY

May 1, 1980

Mr. Ed Cunningham The Morey Corporation 2659 Wisconsin Downers Grove, Illinois 60515

Dear Ed:

Enclosed is the completed lease between The Morey Corporation and Montgomery Ward & Co. It's been a long time coming but we finally did it.

As I mentioned in our meeting on Wednesday, April 2, 1980, I've listed below the individuals at Wards who are directly involved with this project:

Mr. Warren Mathews Real Estate Manager 140 South State Chicago, Illinois (312) 467-3261

Mr. Ray Olson Engineering Department 140 South State Chicago, Illinois (312) 467-3197

Either one of these individuals should be able to give you an answer or direct you to the person in charge. If you have problems, please do not hesitate to call me.

Again, it's been a sincere pleasure working with you and best of luck with the lease.

Kindest regards,

KAPLAN, GOODE & CO.

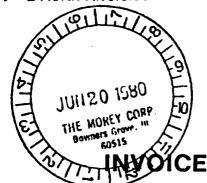
Steven J. google

SJG:mlu

KAPLAN, GOODE & COMPANY • 2 North Riverside Plaza • Chicago, Illinois 60606 • (312) 648-1900



Real Estate • Industrial • Commercial



60515

June 16 19 80

TO: Mr. Edward Cunningham
The Morey Corp.
2659 Wisconsin Avenue
Downers Grove, Illinois

#269

For real estate brokerage services rendered in the leasing of the land site adjacent to 2659 Wisconsin Ave., Downers Grove, to Montgomery Ward & Co. for a period of 10 years commencing the first day of the first month following the month in which tenant takes possession.

Yearly rental Total rental (25,700 x 10 years) \$257,000 x 3% = \$25,700.00 \$257,000.00 \$7,710.00

\$7,710 00

The lease contains two five year options. In the event said options are exercised, there shall be an additional commission equal to 3% of the rental reserved for in those option periods.



October 17, 1979

Ed Cunningham
o'o Morey Corporation
2659 Wisconsin Ave.
Downers Grove, Illinois 60515

Re: Downers Grove, Illinois Ward Proposed Repair Service and rear parking area

Dear Mr. Cunningham:

The proposal to lease the subject approximate 48,000 square feet of parking area has been approved by Ward's Corporate management under the terms and conditions previously discussed. A lease reflecting this arrangement shall be forthcoming shortly.

Very truly yours,

G. A. Palka

Regional Real Estate Department

dls

cc: Steve Goode-Kaplan & Goode Co.

STATE OF ILLINOIS)
COUNTY OF DU PAGE)SS:

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Sec. 38

for the county and state aforesaid, DO HEREBY CERTIFY that

NATIONAL BANK, a National Banking Association, who are
personally known to me to be the persons whose names are
subscribed to the foregoing instrument as such

President, and

Secretary, respectively, appeared
before me this day in person and acknowledged that they signed,
sealed and delivered the said instrument as their free and
voluntary act and as such

Secretary, respectively, and as the free and
voluntary act of said corporation for the uses and purposes
therein set forth.

OFFICIAL SEAL*
Dougles E. Cunningham
Notary Public, State of Finels
My Commission Expires 11/08/83

My Commission Expires: ///8/53

STATE OF ILLINOIS)
COUNTY OF COOK)SS

I, Frances M. Catledac, a Notary Public in and for the county and state aforesaid. DO HEREBY CERTIFY that Spencer H. Heine, Senior Vice President, and G. T. Morgan, Assistant Secretary, of MONTGOMERY WARD & CO., INCORPORATED, an Illinois corporation, who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such Senior Vice President and Assistant Secretary, respectively, appeared before me this day in person and acknowledged that they signed, sealed and delivered the said instrument as their free and voluntary act and as such Senior Vice President and Assistant Secretary, respectively, and as the free and voluntary act of said corporation for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 11th day of April . 1970.

Notary Public

"OFFICIAL SEAL"
FRANCES M. CATLEDGE
Notary Public. State of Illinois
My Commission Expires 10/25/91

My Commission Expires: 10/25/1991

IN WITNESS WHEREOF, the parties hereto have caused this First Supplemental Agreement to be executed the first day and year above written.

LANDLORD:

DOWNERS GROVE NATIONAL BANK

as Trustee wader

Trust No. 78-309

By:_____

ATTEST: Edward Africal

WITHESS:

TENANT:

MONTGOMERY WARD & CO., INCORPORATED

Y:____

or Vice President

ATTEST:

ssistant Secretary

WITNESS:

EXCEPT as above supplemented, the Lease, together with any previous Supplemental Agreements and/or Lease Amendments, is hereby ratified and confirmed. All of the covenants of said Lease, as amended, shall be interdependent and binding upon and shall inure to the benefit of the parties hereto, their respective successors and assigns.

Date: 2/7/9/ #PGS ?

FAX
TO: Done Curringles

From: O. Sarbara ...

Message: Per year flow

Request Montgomery Ward

RECEIVED

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THE MORRY CORR

FIRST SUPPLEMENTAL AGREEMENT

THIS FIRST SUPPLEMENTAL AGREEMENT made this 29th day of December, 1989, by and between DOWNERS GROVE NATIONAL BANK.

National Banking Association, as Trusted under Trust No. 78-309, Dereinafter called Landlord, and MONTGOMERY WARD & CO., INCORPORATED, an Illinois corporation, with corporate offices at One Montgomery Ward Plaza, Chicago, Illinois 60671, hereinafter called Tenant.

WITNESSETH:

WHEREAS, the parties hereto entered into a certain Lease Agreement dated February 5, 1980, hereafter called the Lease, covering certain premises located in the City of Downers Grove, County of DuPage, State of Illinois, commonly known as 2663 Wisconsin Avenue, now occupied by Tenant and more fully described in said Lease, and

WHEREAS, the parties are mutually desirous of supplementing said Lease;

NOW THEREFORE, for and in consideration of the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- (1) The term of said Lease is hereby extended from and including the first (1st) day of October, 1990 to and including the thirtieth (30th) day of September, 1995.
- (2) Tenant shall continue to pay rent to Landlord for the leased premises during the extended term herein provided at the annual rate of TWENTY FIVE THOUSAND SEVEN HUNDRED AND NO/100 DOLLARS (\$25,700.00), payable in equal monthly installments on or before the tenth (10th) day of each calendar month for the current calendar month. Rent for part of a month shall be prorated.
- (3) Payments to the Landlord may be made by checks or drafts payable to the order of The Morey Corporation, and mailed to such payee at 2659 Wisconsin Avenue, Downers Grove, Illinois 60515.
- (4) Effective as of the complete execution and delivery of this First Supplemental Agreement, Section 4 of said Lease shall be and is hereby cancelled and deleted therefrom, it being understood and agreed, however, that the Tenant shall continue to have the option granted to it in Section 5 of said Lease to further extend the term for an additional period of five (5) years from the end of the extended term herein provided, in accordance with said Section 5.
- (5) In consideration of One Dollar (\$1.00) paid by the Tenant to the Landlord, the receipt and sufficiency of which is hereby acknowledged, Landlord hereby agrees that the Tenant shall have the option to execute this First Supplemental Agreement at any time within thirty (30) days after receipt of the same duly executed by Landlord.

January 19, 1996

Mr. Chuck Jensen
Regional Property Manager
Montgomery Ward
Corporate Real Estate
535 West Chicago Avenue
Chicago, Illinois 60671

RE: Parking lot lease, Montgomery Ward Service Facility 2701, Behind Walnut Avenue, Downers Grove, Illinois.

Dear Mr. Jensen:

As you are aware, Montgomery Ward has chosen to exercise the final five year option on the parking lot described above.

The lease terms provide for a 75% increase in rent effective on the October 1, 1995 renewal date.

We therefore request that you update your records and payment system to reflect a monthly rent of \$3,747.91 as of October 1, 1995.

Please feel free to call the undersigned at (708) 964-2300 with any questions.

Very truly yours,

THE MOREY CORPORATION

Douglas E. Cunningham Controller

DEC/s

O'BRIEN, O'ROURKE & HOGAN

ATTORNEYS AT LAW

JAMES X. BORMES
BRYAN L. CAPPS*
CAROL J. COPLAN
WILLIAM J. COTTER
WILLIAM T. DWYER, JR.
W. CRAIG FOWLER
MICHAEL GILMAN
HOWARD I. GOLDBLATT
FREDERIC G. HOGAN
PATRICK J. KENNEDY*

Suite 830 135 South LaSalle Street Chicago, Illinois 60603 (312) 372-1462 Fax (312) 372-8029

FLORIDA OFFICE:

Moye, O'Brien, O'Rourke, Hogan & Pickert Orlando, Florida 32801 GREGORY S. MARTIN*
GREGORY R. MEEDER
NATHAN E. MINEAR*
JAMES E. MOYE*
DONALD V. O'BRIEN
JOHN C. O'ROURKE, JR.
STEPHEN W. PICKERT*
"Admitted to practice in Florids and George only
"Admitted to practice in Florids and George only

WILLIAM E. McNULTY OF COUNSEL

January 28, 1995

Mr. Douglas Cunningham
MOREY CORPORATION
2659 Wisconsin Avenue
Downers Grove, IL 60515-0719

VIA FEDERAL EXPRESS

Re: Montgomery Ward Parking Lot Lease

Dear Doug,

I am returning the documents which you had sent to me concerning the captioned lease. I have retained a copy of the actual lease, but have not kept copies of the other materials.

Montgomery Ward has suggested a five-year renewal of the lease at a lower rent that would otherwise be called for under the lease, coupled with the ability to terminate after two years. As I mentioned to you on the phone, our review of the lease does not indicate that there are any simple "outs" for the landlord, or any manner in which to deter the tenant for exercising its right to extend the lease. Your only true ability to terminate the lease is in the event of a tenant default, which you indicated has not occurred. To the contrary, Montgomery Ward has apparently been a very good tenant.

At this point, it appears your strategic options are somewhat limited: (1) you could reject the Montgomery Ward proposal and require strict adherence to the terms of the lease and hope that Montgomery Ward's plans are such that they would elect simply not to renew at all; (2) you could agree to the lower rent proposed by Montgomery Ward, but only on the condition that both landlord and tenant have the right to terminate the lease after two years (or some other period), (3) you could perhaps propose that the tenant waive its right to extend for five years in exchange for a one-year renewal - perhaps at the old rent. Opting for (1) above - the hardball approach - certainly could produce the best results for Morey, but clearly is a gamble; however, the tenor of Montgomery Ward's January 11 letter suggests that Montgomery Ward perceives any renewal of the lease to be a significant benefit to Morey.

Incidentally, as I mentioned to you, when I was speaking to Downers Grove National Bank the other day, I inquired into the status of the landlord-land trust (number 78-309). I was advised that the Bank's computer records reflected the trust was terminated in 1986. The Bank

O'BRIEN, O'ROURKE & HOGAN

Mr. Douglas Cunningham MOREY CORPORATION

January 28, 1995 Page -2-

could not at the time locate their files to determine to whom the property was conveyed. I suggested to you when we spoke that this seemed somewhat unusual since the trust would not have expired by its terms (typically 20 years) in 1986, and given the existence of the long term lease, there probably would have been no activity on the trust file. However, there may have been reasons why the trust was terminated at that time -- such as the repayment of any mortgages or other loans for which the property served as collateral. In any case, I wanted you to be alerted to this fact so that any extension documentation with Montgomery Ward would reflect the proper parties.

In any case, if you need assistance in documenting any agreement that you reach with Montgomery Ward, or if you have any questions, please let me know.

Sincerely,

William J. Cotter

/wjc Enclosures

MOR 000261



Doug Canningham

The Morey Corporation

ENGINEERS AND ELECTRONIC EQUIPMENT MANUFACTURERS

Facsimile Transmission					
From:	The Morey Corporation Doug Cunningham				
To:	O'Brien, O'Rourke				
Attn:	Bill Cotter				
Fax number:312-372-8029					
Date: 2-7-96 Time: 10:45 am					
Our phone number is (708) 964-2300 Our fax number is (708) 960-7484					
Number of pages (including this page) 5					
Message: Bill:					
Per our previous conversation on the leased property adjacent to our I sent the following letter requesting the rate increase.					
The response they sent indicated that they believe the rate increase to be 15.13%, not 75%.					
Please review their correspondence and our lease and advise as to the proper interpretation.					
Thanks					



The Morey Corporation

ENGINEERS AND ELECTRONIC EQUIPMENT MANUFACTURERS

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From: The Morey Corporation

Doug Cunningham

TO: D'BRIED O'REJERE Stel

Attn: BICK STEEL

Fax number: 1-312-372-8029

Date: 27-96 Time: 45-20

Our phone number is (708) 964-2300 Our fax number is (708) 960-7484

Number of pages (including this page) 5

Message:

Bru 3

HERE'S THE 130 Spplants

AGRZEMZUT.

PCS ADDIDE. Thanks

D-J

BAUER & HOTTE, P. C.

ATTORNEYS AT LAW

ELMHURST, ILLINOIS 60126

Mobert W. Mottr James G. Bauer TELEPHONE TERRACE -1-0960 AREA CODE 012



November 27, 1979

Montgomery Ward & Co. Regional Law Department P. O. Box 7337 Chicago, Illinois 60608

Attn: Mr. Kent Kerr

Re: Montgomery Ward Lease

Ellsworth Park Unit #5

Downers Grove, IL

Dear Mr. Kerr:

In accordance with our recent telephone conversations, I am enclosing a photostatic copy of Lease previously tendered to me with the following changes and/or deletions:

- (1) Leases dated December 1, 1979.
- (2) The rent can be adjusted upward, but not downward, during any extention terms.
- (3) That all maintenance of the demised premises are the obligation of the tenant.
- (4) That Landlord has no obligation whatsoever in regard to insurance.
 - (5) That cost of leasehold title policy and recording of

Lease Agreement shall be bourn by Tenant.

I believe that these changes correctly reflects the intention of the parties but will await your comments before I incorporate them into the master copies of the Lease.

Very truly yours, .

BAUER & HOTTE, P. C.

James G. Bauer

JGB:ba

Enc.

CC: The Morey Corporation - Attn: Mr. Edward J. Cunningham

UELLANDER 1, 11.9 This Lease, dated November 1,-1979

between Downers Grove National Bank and Trust, as Trustee under Trust No. 78-309

herein called the "Landlord," and MONTGOMERY WARD & CO., INCORPORATED, an Illinois corporation, with General Offices at 619-West Chicago Avenue, Chicago, Illinois, herein called the "Tenant," 140 South State Street, Regional

WITNESSETH:

* the date Tenant takes possessi of the demised Premises provid Landlord has completed the wor described in Paragraph #19 her und

1. The Landlord leases to the Tenant for a term commencing on * , and continuing to and including **

the premises located in the City of Downers Grove

, County of Dupage

, and State of Illinois

described as follows:

· WATER PROPERTY OF THE PROPERTY OF THE PROPERTY OF

** Ten (10) years after the first day of the first month followi the month in which Tenant take possession.

See Exhibit "A", which is attached hereto and made a part hereof.

including all improvements now or hereafter thereon and all appurtenances thereto. Said premises are commonly known as 2663 Wisconsin Avenue.

- 2. The Tenant shall pay rent to the Landlord at the annual rate of Twenty Five Thousand Seven Hundred and No/100 Dollars (\$ 25,700.00) payable in equal monthly installments on or before the tenth (10th) day of each calendar month for the current calendar month. Rent for part of a month shall be prorated. Anything contained herein to the contrary notwithstanding, the Tenant's obligation to pay rent hereunder shall not commence until actual and exclusive possession of the leased premises has been delivered to the Tenant and all repairs, alterations and improvements necessary to fit the premises for occupancy and use by the Tenant shall have been completed, all as contemplated by Paragraphs 19 & 20 hereinbelow.
 - 3. All payments to the Landlord may be made by checks or drafts payable to the order of

and mailed to such payee at 2459 Wiscours Avenue. The Morey Corporation Downers Greve, Ellison 60515

4. The Tenant may, by written notice mailed or telegraphed to the Landlord One Hundred (180) or more days before the end of the term, extend the Eighty term to-end-including- an additional Five (5) years upon the same terms and conditions as herein set forth, except that rent shall be adjusted upward en demand at the commencement of the extended term by the percentage in the CPI since the commencement of the term, but in no event shall the rent be increased by more than 75%.

5. If the Tenant has exercised the foregoing option to extend the term, it may, by written notice mailed or telegraphed to the Landlord One Hundred Eighty (180) or more days before the end of the term as extended, further extend the term to and including for an additional Five years upon the same terms and conditions as herein set forth, except that rent during the further extended term shall be adjusted upward at the commencement of the further extended term by the percentage change in the CPI since the commencement of the extende term, but in no event shall rent be increased by more than 75%.

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All rent and other charges paid in advance for any period after the effective date of such cancellation

- 7. The Landlord will not interrupt or disturb any entrances, exits, or approaches, or deprive the premises of any light or air now enjoyed by the premises.
- 8. The Landlord covenants and agrees to maintain the Tenant's quiet possession and enjoyment of the entire leased premises during the term hereof and furthers was and agrees that the based premises and all appearance the state of the state
- 9. The Tenant, at its own expense, may from time to time install on the premises any equipment fixtures and improvements and remove them and may make any alterations or additions in a good and workmanlike manner in and to the premises and may erect or remove any signs on the premises which it may deem necessary or suitable for the conduct of its business. (Excest Advantage Signs)
- 10. Notwithstanding any other provision of this lease, the Tenant shall not be liable for any loss or damage to the premises caused by fire or the elements, whether or not such loss or damage shall result from the Tenant's negligence. At all times after the acceptable becough the familiors shall easy for each categories wherever on the improvements on the provision in such companies and in such acceptable with such and results as shall be satisfactory to the Tenant. Certificates of insurance on acceptable copies of all insurance policies shall be deposited with the Tenant.
- 11. If any default of either party continues uncorrected for sixty (60) days (thirty (30) days in the case of a default in the payment of rent) after receipt of written notice from the other party, stating with particularity the nature and extent of the default, the party giving such notice may cancel this lease by written notice of cancellation. The Tenant may, at any time after any default of the Lead-lord, correct such default. In the west the Tenant may, at any time after any default of the Lead-lord, correct such default. In the west the Tenant may, at any time after any default and account of the second default, withhold from rant the amount claimed by it. Yo remedy provided in this lease shall be exclusive, but each shall be cumulative with all other remedies provided in this lease and at law or in equity.
- 12. The Tenant may sublet the premises or assign this lease; provided, however, that the Tenant shall not be relieved from its obligations under the lease by such subletting or assignment without the Landlord's consent.
- 13. The Tenant may holdover at the end of the term, without extending the term or renewing the lease, project the Landlord, at least thirty (30) days prior to the expiration of the term, has not given written to the Tenant to vacate the premises at the expiration of the term. If the Tenant does so holdow the tenancy thereafter shall continue upon the terms and conditions of this lease in effect during the last month of the term until terminated by either party by notice mailed to the other party at least thirty (30) days before the effective date of such termination.
- 14. The Tenant, on the last day of the term, or on the last day of any holdover, will surrender the premises in as good condition as when the Tenant takes possession, except for ordinary wear and tear, repairs and replacements required to be made by the Landlord, loss by fire or casualty, loss by any cause beyond the Tenant's control, and alterations, additions, and improvements herein permitted.

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15. Tenant shall pay for all gas and electricity used by it on the demised premises.

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- 16. (a) The Landlord shall pay when due all taxes and assessments of every kind and nature which have been or which shall during the term of this lease be levied, assessed or otherwise imposed upon the leased premises, including all improvements now or hereafter thereon, but nothing contained in this Section 16 shall be deemed to obligate the Landlord to pay any taxes levied or assessed against the personal property of the Tenant located in the leased premises or any taxes commonly known as "chain store taxes" imposed on the Tenant by reason of the fact that the Tenant operates more than one place of business in the jurisdiction imposing such tax, which personal property taxes and chain store shall be paid the Tenant.
- (b) The Tenant, upon receipt of satisfactory evidence of the amount of such excess, shall reimburse the Landlord the amount by which the general real estate taxes levied and assessed against the leased premises for each subsequent tax fiscal year during the term of this lease exceed the general real estate taxes levied and assessed against the leased premises for the third tax fiscal year following Tenant's occupancy; provided, however, that the Tenant shall be obligated to pay only its pro rata share of such excess taxes for the tax fiscal year during which its obligation to pay rent under this lease ceases, said pro rata share to be based upon the number of days of the then current tax fiscal year for which the Tenant has been obligated to pay rent under this lease.
- (c) Prior to the payment thereof, the Landlord shall submit to the Tenant copies of all general real estate tax bills, a portion of which the Tenant may be obligated to pay to the Landlord under this Section 18, together with a statement showing the computation of the amount owed by the Tenant to the Landlord hereunder, supported by such evidence as the Tenant may reasonably require, whereupon the Tenant (unless it shall contest such taxes as hereinafter provided) shall pay to the Landlord within thirty (30) days after receipt of such bills, statement and other evidence, that portion of such general real estate taxes required to be paid by the Tenant hereunder.
- (d) In the event the Tenant shall desire to contest the validity or amount of any tax, a portion of which it may be required to pay to the Landlord hereunder, the Tenant, within thirty (30) days after being notified of the amount thereof, shall notify the Landlord of its intention to do so, whereupon the Landlord shall defer payment of any such tax so long as the validity or amount thereof shall be contested by the Tenant in good faith and by proper proceedings, except that the Landlord may make such payments under protest or take such other steps with regard to said tax as will not prejudice the Tenant's opportunity to successfully contest the validity, or amount thereof. The Landlord agrees to render to the Tenant all assistance reasonably possible, without expense to the Landlord, in contesting the validity or amount of any such tax, including joining in and signing any protest or pleading which the Tenant may deem it advisable to file. Should any rebate be made on account of any tax a portion of which has been paid by the Tenant to the Landlord hereunder shall belong to and be paid to the Tenant.
- 17. Tenant shall maintain the parking lot areas, fence, and paved areas in good condition and repair, and shall also, as necessary, maintain, repair, and replace the gas pump and lighting facilities on the demised premises.
- 18. Tenant shall carry General Liability insurance, or at its option be self-insured, with limits of not less than Two Hundred and Fifty Thousand Dollars (\$250,000.00).

Public Lightlity The bandlord shall easily policies of incurrence against public lightlity wish limits of at least Two Hundred Fifty Thousand Dellars/Two Hundred Pifty Thousand Dellars (\$250,000/\$250,000) and against property damages with a light of at least Two Hundred Fifty Thousand Dellars (\$250,000), which incurrence shall be in effect at all times during the consecution of Landlord's Improvements:

All insurance polices required hoseunder shall include Tenunt as a name insured or provide for diseas contractural liability of the insurance contract to Tenant and shall be corried by responsible, solvens corriers authorized to the business in the crare in which the President 19 located.

the following endorsements shall be pluced on all insurance policies carried by the Landlord pursuant to this Section 8.

- (a) "Before changing of cancelling this policy, the Insurance Company agrees to give five (5) days prior written notice to Montgomery Ward & Co., Incorporated, at 140 South State Street, Chicago, Illinois 60603, attention of the Regional Real Estate Department."
- (b) "Notice is received and accepted by the Insurance Company that the insured has waived the right of recovery from Monagomery Ward & Co., Incorporated."

required under this section bearing the required endorsements shall be depocited, upon request with the Tenant on or before commencement of the term of this lease.

- 19. Within Thirty (30) days after final execution of this Lease, Landlord shall commence, and thereafter diligently prosecute to completion, the following Landlord's work, as also more fully described an Exhibit "B", which is attached hereto and made a part hereof:
 - (a) Grade, compact, and gravel the parking areas so as to be suitable for Tenant's intended use.
 - (b) Install a six (6) foot chainlink fence (with barbed wire and sliding gate) around the perimeter of the demised area.
 - (c) Excavate for, position, and install a certain Eight Thousand (8000) gallon gasoline tank, and pump, located as shown on Exhibit "B", tank and pump to be supplied by Tenant promptly after last execution of this Lease.
 - (d) Provide electric service to the gas pump.
 - (e) Install and erect a lighting pylon, and attach lighting fixtures thereto, as shown on Exhibit "A".
 - (f) Lay concrete paving in and about the area of the gasoline pump as required.
 - (g) Pave a hard surface, all weather, access drive from the pump area to the adjoining parcel also leased by Tenant.

All work required to be performed by the Landlord hereunder shall be performed in a good and workmanlike manner. The Premises shall be left at the completion of such work in a safe, clean and tenantable condition and in good order and repair. Landlord shall perform all work provided for hereunder in conformity with all applicable construction and building codes and with every applicable requirement of law or duly constituted authority of law, or any Board of Underwriters, Rating Bureau or similar organization having jurisdiction, of carriers of insurance on the leased Premises.

- 20. Tenant shall take possession of the Leased premises within a reasonable time, not to exceed Thirty (30) days, after Landlord notifies Tenant that all Landlord's work pursuant to Paragraph #19 has been completed and that Tenant may have exclusive possession of the Premises. In the event the Landlord has not completed all work on or before June 1, 1980 , Tenant may cancel this Lease by sending written notice to Landlord, whereupon this Lease shall be terminated and of no further force and event:
- 21.1 Within thirty (30) days from the date of last execution of this Lease. Landlord shall pay feet, provide and deliver to Tenant (at the office of Tenant) a leasehold title insurance policy of a title company acceptable to Tenant in the amount of ONE HUNDRED THOUSAND and No/100 (\$100,000.00) DOLLARS covering the date hereof, or if Tenant so elects, its preliminary report on title or title binder in said amount of \$100,000.00 showing title in Landlord, subject only to matters to which this Lease is subject. All such title costs and premiums to be paid by Landlord.

If the report on title, title binder, or leasehold title insurance policy, so required, discloses any defects in title (other than such usual objections contained in Leasehold policies and matters to which this Lease is subject) Landlord shall, upon tendering the same to Tenant within thirty (30) days from the date of last execution of this Lease, have sixty (70) days, from the date which such title report, binder, or leasehold title insurance policy bears, to cure such defects and to furnish such title report, binder, or leasehold policy showing such defects ures or removed. If such defects in title are not so cured within sixty (60) days, enaities, at its option, terminate this Lease. In the event this Lease is so terminate at least the reporting of the reprocitive of the reporting of the rep

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- 21.2 Tenant may, at its option, record this Lease and the cost of all documentary stamps, or conveyancing, transfer tax and recording fees shall be paid equally by the parties heres. If ILMANT
- 21. Broker's Commissions If there are any Broker's fees or commissions payable in connection with the bringing about of the execution and delivery of this lease, the Landlord agrees that Landlord will pay same, that the Tenant shall not be liable for such fees and commissions and that the Landlord will indemnify and save the Tenant harmless from any and all claims for such fees and commissions.
- 22. Landlord and Tenant acknowledge that Tenant is negotiating a Lease of substiantially like terms and conditions for Premises adjoining the Landlord's Premises, and that Tenant's use of the demised premises is not feasible without the use of said adjoining Premises. Notwithstanding anything in this Lease to the contrary, Tenant's rental obligation hereunder shall not commence until Tenant has taken possession of the adjoining Premises. When the commencement date of both leases has become fixed, Landlord and Tenant agree to execute a Lease Supplement fixing the commencement date and the termination date of the Lease.
- If, due to fire, the elements, or the exercise of the right of eminent domain or other authority of law, or any other cause, the premises shall become untenantable, dangerous or unfit for the Tenant's use, rent payable under this lease shall abate during the continuance of that condition. If the conditions which give rise to an abatement of rent under this section continue for a period of ninety (90) days, then the Tenant may, at any time within sixty (60) days after such ninety (90) day period, cancel this lease and terminate its tenancy by giving the Landlord written notice of its intention to do so.

All notices, approvals, or requests in connection with this lease shall be sent by registered mail or telegram. Notices to the Landlord may be addressed to the Landlord at the address set forth in Section 3 above. Notices to the Tenant shall be addressed to Montgomery Ward & Co., Incorporated, at 140 South State Street, Chicago, Illinois, attention: Regional law Department.

Employees or agents of the Tenant have no authority to make or agree to make a lease. This instrument shall not be binding upon the Tenant until it has been executed on behald of the Tenant by one of its corporate officers. No act or omission of any employee of the Tenant shall alter, change, or modify any of the provisions of this lease. Any alterations, changes, and modifications of this lease shall be effective only when made in writing and executed on behalf of the Tenant by one of its corporate officers.

All the grantors of the term shall be bound jointly and severally by this lease. This lease shall inure to the benefit of and be binding upon, the respective heirs, legal representatives, successors and assigns of the Landlord and the Tenant.

IN WITNESS WHEREOF, this lease has been duly executed under seal as of the first hereinabove written.

TENANT:

LANDLORD:

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DOWNERS GROVE NATIONAL BANK & TRUST, as Trustee under Trust No.	MONTGOMERY WARD & CO., INCORPORATED
Ву:	By: J.B. Gelling, Senior Vice President
Attest:	Attest: G. Fletcher Ward, Assistant Secretary
witnesses:	witnesses:
·	

BAUER & HOTTE, P. C. ATTORNEYS AT LAW 110 SCHILLER STREET

ELMRURST, ILLINOIS 60126

BORERT W. HOTTE JAMES G. BAUER TERRACE -3-3900 Area Code 012



November 27, 1979

Montgomery Ward & Co. Regional Law Department P. O. Box 7337 Chicago, Illinois 60608

Attn: Mr. Kent Kerr

Re: Montgomery Ward Lease Ellsworth Park Unit #5

Downers Grove, IL

Dear Mr. Kerr:

In accordance with our recent telephone conversations, I am enclosing a photostatic copy of Lease previously tendered to me with the following changes and/or deletions:

- (1) Leases dated December 1, 1979.
- (2) The rent can be adjusted upward, but not downward, during any extention terms.
- (3) That all maintenance of the demised premises are the obligation of the tenant.
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Lease Agreement shall be bourn by Tenant.

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Very truly yours, .

BAUER & HOTTE, P. C.

James G. Bauer

JGB:ba

Enc.

CC: The Morey Corporation - Attn: Mr. Edward J. Cunningham

This Lease, dated November-1,-1979

between Downers Grove National Bank and Trust, as Trustee under Trust No. 78-309

herein called the "Landlord," and MONTGOMERY WARD & CO., INCORPORATED, an Illinois corporation, with General Offices at 619 West Chicago Avenue, Chicago, Illinois, herein called the "Tenant,"

Regional 140 South State Street,

·WITNESSETH:

* the date Tenant takes possessi of the demised Premises provid Landlord has completed the wor described in Paragraph #19 her

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, County of Dupage

, the premises located in the City of Downers Grove upage , and State of Illinois

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** Ten (10) years after the first day of the first month followi the month in which Tenant take possession.

See Exhibit "A", which is attached hereto and made a part hereof.

including all improvements how or hereafter thereon and all appurtenances thereto. Said premises are commonly known as 2663 Wisconsin Avenue.

- 2. The Tenant shall pay rent to the Landlord at the annual rate of Twenty Five Thousand Seven Hundred and No/100

 Dollars (\$ 25,700.00) payable in equal monthly installments on or before the tenth (10th) day of each calendar month for the current calendar month. Rent for part of a month shall be prorated. Anything contained herein to the contrary notwithstanding, the Tenant's obligation to pay rent hereunder shall not commence until actual and exclusive possession of the leased premises has been delivered to the Tenant and all repairs, alterations and improvements necessary to fit the premises for occupancy and use by the Tenant shall have been completed, all as contemplated by Paragraphs 19 6 20 hereinbelow.
 - 3. All payments to the Landlord may be made by checks or drafts payable to the order of

The Money Corporation and mailed to such payee at 2659 Wiscous Avenue.

Downers Green, Ellison 60515

4. The Tenant may, by written notice mailed or telegraphed to the Landlord One Hundred Eighty (180) or more days before the end of the term, extend the term to-and-including—an additional Five (5) years upon the same terms and conditions as herein set forth, except that rent shall be adjusted upward an adminished at the commencement of the extended term by the percentage in the CPI since the commencement of the term, but in no event shall the rent be increased by more than 75%.

5. If the Tenant has exercised the foregoing option to extend the term, it may, by written notice mailed or telegraphed to the Landlord One Hundred Eighty (180) or more days before the end of the term as extended, further extend the term to and including for an additional Five years upon the same terms and conditions as herein set forth, except that rent during the further extended term shall be adjusted upward the commencement of the further extended term by the percentage change in the CPI since the commencement of the extende term, but in no event shall rent be increased by more than 75%.

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- 11. If any default of either party continues uncorrected for sixty (60) days (thirty (30) days in the case of a default in the payment of rent) after receipt of written notice from the other party, stating with particularity the nature and extent of the default, the party giving such notice may cancel this lease by written notice of cancellation. The Tenant may, at any time after any default of the Lead-lord, correct such default. In the event the Tenant may, at any time after any default of the Lead-lord, correct such default. In the event the Tenant may, at any time after any default of the Tenant may default and account of any alaim of the Tenant under any previsions of this lease, the Tenant made, without penalty or default, withhold from rant the amount claimed by it. No remedy provided in this lease shall be exclusive, but each shall be cumulative with all other remedies provided in this lease and at law or in equity.
- 12. The Tenant may sublet the premises or assign this lease; provided, however, that the Tenant shall not be relieved from its obligations under the lease by such subletting or assignment without the Landlord's consent.
- 13. The Tenant may holdover at the end of the term, without extending the term or renewing the lease, project the Landlord, at least thirty (30) days prior to the expiration of the term, has not given written access to the Tenant to vacate the premises at the expiration of the term. If the Tenant does so holdown, the tenancy thereafter shall continue upon the terms and conditions of this lease in effect during the last month of the term until terminated by either party by notice mailed to the other party at least thirty (30) days before the effective date of such termination.
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- (c) Prior to the payment thereof, the Landlord shall submit to the Tenant copies of all general real estate tax bills, a portion of which the Tenant may be obligated to pay to the Landlord under this Section 18, together with a statement showing the computation of the amount owed by the Tenant to the Landlord hereunder, supported by such evidence as the Tenant may reasonably require, whereupon the Tenant (unless it shall contest such taxes as hereinafter provided) shall pay to the Landlord within thirty (30) days after receipt of such bills, statement and other evidence, that portion of such general real estate taxes required to be paid by the Tenant hereunder.
- (d) In the event the Tenant shall desire to contest the validity or amount of any tax, a portion of which it may be required to pay to the Landlord hereunder, the Tenant, within thirty (30) days after being notified of the amount thereof, shall notify the Landlord of its intention to do so, whereupon the Landlord shall defer payment of any such tax so long as the validity or amount thereof shall be contested by the Tenant in good faith and by proper proceedings, except that the Landlord may make such payments under protest or take such other steps with regard to said tax as will not prejudice the Tenant's opportunity to successfully contest the validity or amount thereof. The Landlord agrees to render to the Tenant all assistance reasonably possible, without expense to the Landlord, in contesting the validity or amount of any such tax, including joining in and signing any protest or pleading which the Tenant may deem it advisable to file. Should any rebate be made on account of any tax a portion of which has been paid by the Tenant to the Landlord hereunder shall belong to and be paid to the Tenant.

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- 18. Tenant shall carry General Liability insurance, or at its option be self-insured, with limits of not less than Two Hundred and Fifty Thousand Dollars (\$250,000.00).

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The following endorsements shall be placed on all insurance policies carried by the Landlord pursuant to this Section 8.

- (a) "Before changing of cancelling this policy, the Insurance Company agrees to give five (5) days prior written notice to Montgomery Ward & Co., Incorporated, at 140 South State Street, Chicago, Illinois 60603, attention of the Regional Real Estate Department."
- (b) "Notice is received and accepted by the Insurance Company that the insured has waived ble right of recovery from Montgomery Ward & Co., Incorporated."

required under this section bearing the required endorsements shall be deposited, upon request with the Tenant on or before commencement of the term of this lease.

- 19. Within Thirty (30) days after final execution of this Lease, Landlord shall commence, and thereafter diligently prosecute to completion, the following Landlord's work, as also more fully described an Exhibit "B", which is attached hereto and made a part hereof:
 - (a) Grade, compact, and gravel the parking areas so as to be suitable for Tenant's intended use.
 - (b) Install a six (6) foot chainlink fence (with barbed wire and sliding gate) around the perimeter of the demised area.
 - (c) Excavate for, position, and install a certain Eight Thousand (8000) gallon gasoline tank, and pump, located as shown on Exhibit "B", tank and pump to be supplied by Tenant promptly after last execution of this Lease.
 - (d) Provide electric service to the gas pump.
 - (e) Install and erect a lighting pylon, and attach lighting fixtures thereto, as shown on Exhibit "A".
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 - (g) Pave a hard surface, all weather, access drive from the pump area to the adjoining parcel also leased by Tenant.

All work required to be performed by the Landlord hereunder shall be performed in a good and workmanlike manner. The Premises shall be left at the completion of such work in a safe, clean and tenantable condition and in good order and repair. Landlord shall perform all work provided for hereunder in conformity with all applicable construction and building codes and with every applicable requirement of law or duly constituted authority of law, or any Board of Underwriters, Rating Bureau or similar organization having jurisdiction, of carriers of insurance on the leased Premises.

- 20. Tenant shall take possession of the Leased premises within a reasonable time, not to exceed Thirty (30) days, after Landlord notifies Tenant that all Landlord's work pursuant to Paragraph #19 has been completed and that Tenant may have exclusive possession of the Premises. In the event the Landlord has not completed all work on or before June 1, 1980 , Tenant may cancel this Lease by sending written notice to Landlord, whereupon this Lease shall be terminated and of no further force and event:
- 21.1 Within thirty (30) days from the date of last execution of this Lease, Landlord shall pay fee, provide and deliver to Tenant (at the office of Tenant) a leasehold title insurance policy of a title company acceptable to Tenant in the amount of ONE HUNDRED THOUSAND and No/100 (\$100,000.00) DOLLARS covering the date hereof, or if Tenant so elects, its preliminary report on title or title binder in said amount of \$100,000.00 showing title in Landlord, subject only to matters to which this Lease is subject. All such title costs and premiums to be paid by Landlord.

If the report on title, title binder, or leasehold title insurance policy, so required, discloses any defects in title (other than such usual objections contained in Leasehold policies and matters to which this Lease is subject) Landlord shall, upon tendering the same to Tenant within thirty (30) days from the date of last execution of this Lease, have sixty (70) days, from the date which such title report, binder, or leasehold title insurance policy bears, to cure such defects and to furnish such title report, binder, or leasehold policy showing such defects are or removed. If such defects in title are not so cured within sixty (60) days, charman, at its option, terminate this Lease. In the event this Lease is so terminate this Lease, the respective of the respective of the state of the respective of the state of the respective of the state of the respective of the state of the respective of the state of the respective of the state of the

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- 21.2 Tenant may, at its option, record this lease and the cost of all documentary stamps, or conveyancing, transfer tax and recording fees shall be paid equally by the parties here.
- 21. Broker's Commissions If there are any Broker's fees or commissions payable in connection with the bringing about of the execution and delivery of this lease, the Landlord agrees that Landlord will pay same, that the Tenant shall not be liable for such fees and commissions and that the Landlord will indemnify and save the Tenant harmless from any and all claims for such fees and commissions.

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LANDLORD:

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22. Landlord and Tenant acknowledge that Tenant is negotiating a Lease of substiantially like terms and conditions for Premises adjoining the Landlord's Premises, and that Tenant's use of the demised premises is not feasible without the use of said adjoining Premises. Notwithstanding anything in this Lease to the contrary, Tenant's rental obligation hereunder shall not commence until Tenant has taken possession of the adjoining Premises. When the commencement date of both leases has become fixed, Landlord and Tenant agree to execute a Lease Supplement fixing the commencement date and the termination date of the Lease.

If, due to fire, the elements, or the exercise of the right of eminent domain or other authority of law, or any other cause, the premises shall become untenantable, dangerous or unfit for the Tenant's use, rent payable under this lease shall abate during the continuance of that condition. If the conditions which give rise to an abatement of rent under this section continue for a period of ninety (90) days, then the Tenant may, at any time within sixty (60) days after such ninety (90) day period, cancel this lease and terminate its tenancy by giving the Landlord written notice of its intention to do so.

All notices, approvals, or requests in connection with this lease shall be sent by registered mail or telegram. Notices to the Landlord may be addressed to the Landlord at the address set forth in Section 3 above. Notices to the Tenant shall be addressed to Montgomery Ward & Co., Incorporated, at 140 South State Street, Chicago, Illinois, attention: Regional law Department.

Employees or agents of the Tenant have no authority to make or agree to make a lease. This instrument shall not be binding upon the Tenant until it has been executed on behald of the Tenant by one of its corporate officers. No act or omission of any employee of the Tenant shall alter, change, or modify any of the provisions of this lease. Any alterations, changes, and modifications of this lease shall be effective only when made in writing and executed on behalf of the Tenant by one of its corporate officers.

All the grantors of the term shall be bound jointly and severally by this lease. This lease shall inure to the benefit of and be binding upon, the respective heirs, legal representatives, successors and assigns of the Landlord and the Tenant.

IN WITNESS WHEREOF, this lease has been duly executed under seal as of the first hereinabove written.

TENANT:

DOWNERS GROVE NATIONAL BANK & TRUST, as Trustee under Trust No.	MONTGOMERY WARD & CO., INCORPORATED
Ву:	By: J.B. Gelling, Senior Vice President
Attest:	Attest: G. Fletcher Ward, Assistant Secretary
witnesses:	WITNESSES:
•	

KAPLAN, GOODE & COMPANY • 2 North Riverside Plaza • Chicago, Illinois, 60606 • (312) 648-1900



IRVING H. GOODE HOWARD E. KAPLAN LEONARD H. SULTAN KEVIN R. FARRELL ROBERT K. BLEY MARK B. GOODE STEVEN J. GOODE HENRY G. BARTELL THOMAS A. KELLY

March 22, 1979

Mr. Ed Cunningham Morey Corporation 2659 Wisconsin Avenue Downers Grove, Illinois

Re: Parking lot for Montgomery Ward

Dear Mr. Cunningham:

Enclosed please find a letter of interest from Montgomery Ward regarding your land immediately behind the building at 5355 Walnut Street, Downers Grove. I have shown them your property on March 7th and 16th, 1979.

You will note that there is no stated rental price. This is based on the fact that there is work to be done on the property and amortized over the term of the lease. In the event a lease contract is agreed upon Kaplan, Goode & Co., would receive as commission payment, 3% of the total rental called for in the lease. If Montgomery Ward should execute the option periods Kaplan, Goode & Co. would be paid 3% of the total rental called for in the option period of the lease.

I look forward to working with you on this project and will be available at your request.

Sincerely,

KAPLAN, GOODE & CO.

Steven J. Zoode

SJG/md Enclosure



March 20, 1979

Mr. Ed Cunningham C/O Kaplan, Goode & Co. 2 North Riverside Plaza Chicago, Illinois 60606

Re: Downers Grove, Illinois
Ward Proposed Parking Lot

Dear Mr. Cunningham:

After reviewing the gravel parking area behind 5355 Walnut, Downers Grove, with Mr. Steve Goode and Ward's operating management, we wish to express our interest in further discussing the leasing of this area. I am in receipt of a drawing of this lot which indicates approximately 100 available spaces. Ideally, Ward desires 125 to 150 spaces in the event that additional land adjacent to your existing lot could be transformed for this purpose. I would, also, like you to consider making the following three improvements which will be necessary for our needs:

- (1) Complete paving and striping of the subject lot and drive connecting it to the drive behind the building just west.
- (2) Complete fencing of the subject lot to Ward's standard specifications.
- (3) Addition of adequate lighting for security purposes.

In addition, I would like you to consider the following lease structure:

LEASE TERM:

10 years fixed (a necessity, since we concurrently

wish to lease the facility just west for a like

term).

OPTION TO EXTEND:

Two 5-year periods.

OPTION TO CANCEL:

None.

ANNUAL RENTAL:

To be determined subject to the landlord's agreement to making the previously requested improvements as preferred by Wards (\$3,300 is understood to be

the base asking rental).

MOR 000271

Mr. Ed Cunningham C/O Kaplan, Goode & Co.

MAINTENANCE:

Upon completion of paving and fencing, Ward shall be responsible for all maintenance and patching to the point of complete replacement which shall be the landlord's responsibility.

REAL ESTATE TAXES:

To be paid by landlord.

Anything contained herein notwithstanding, further pursuit and subsequent execution of an arrangement to lease this lot must be contingent upon Ward's concurrently arranging an agreement to lease the facility at 5355 Walnut in Downers Grove.

After your review of this proposal, I will be glad to meet with you and Mr. Steve Goode in order to resolve any points of further discussion. I feel that Ward can offer you an excellent investment possibility in terms of both longevity and security. I hope to hear from you at your earliest convenience.

Very truly yours,

G. A. Palka

Regional Real Estate Dept.

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CC: W. F. Mathews

P. Angel

C. R. West

W. R. Paull

R. Harvey - Chgo. Metro/Skokie Steve Goode - Kaplan, Goode & Co. Montgomery Ward 140 South State Chicago, Illinois 60603

Attn:

Ray Olson

Engineering Department

Dear Mr. Olson:

We are enclosing a copy of the plans and specifications of what we consider to be our obligations with respect to the parking area that you are leasing from us.

We would appreciate your prompt review and return of one signed copy so that we may instruct our contractor to proceed.

Kindly call should there be any questions.

Very truly yours,

THE MOREY CORPORATION

Edward J. Cunningham

EJC/jd Enclosure

cc: Steve Goode - Kaplan Goode James Bauer - Bauer & Hotte



The Morey Torporation

5-29-1980

PLANS AND SPECIFICATIONS MONTGOMERY WARD PARKING LOT

We propose to furnish labor and material to install parking lot as per outline survey and specifications on preliminary plan.

We will grade present lot to as near as possible a flat plain sloping to lower side of lot.

We will then install approximately 6" of rough stone from $1\frac{1}{2}$ " to 0 grade and then top with approximately 2" of fine screening rolled and compacted.

We will excavate for and install a gasoline steel storage tank.

PERMITS:

Apply and bear cost of state and local permits as required, and notify state and local fire prevention bureaus prior to starting installation.

TANKS:

Install 1-8000 gallon steel tank of (Fiberglass) tank with 4" Midwest opening and U.L. label in the area designated, including excavation and backfilling.

SUMP:

We will furnish and install a spill control inspection sump by tank as required by codes.

TEST:

Tank to be tested prior to installation, and all completed piping to be tested before trenches and top of tank is backfilled, to assure a safe and efficient system.

PIPING:

We will install with galvanized pipe and fittings; $1\frac{1}{2}$ " suction line, complete with OPW #32H Double poppet angle check valve and the required swing joints at tank.

We will install a complete Vapor Recovery System. Enco Wheaton coaxial fitting, locking cap and an A70 drop tube on 4" fill line to tank, a 12" manhole and lid at grade, and required to meet State codes and approved by Illinois Environmental Protection Agencies. 2" vent line, complete with swing joints, from tank to building, or pump island and up to a height of 12' as required by codes. Vent head will be a rustproof aluminum cap, updraft type, to dissipate hazardous vapors, and prevent accumulation of these vapors at ground level.

PUMP: We will set pump and tank furnished by Montgomery Ward.

We will install a concrete slab above tank of approximately 38' wide by 33' long. We will have a raised concrete island above slab for pump and pylon light.

We will have a blacktop approach to the parking lot where entrance will be facing adjoining building to the west as per plans.

We will install a 6' chainlink fence around the entire lot which measures approximately 265' X 183'. Fence to be as follows:

INSTALLATION:

All concrete used for post foundation shall be certified ready-mix concrete designed to obtain a minimum compression strength of 2,500 psi at 28 days or shall be mixed at the job site in the following proportions by volume: one part Type I Portland cement, two parts sand, three parts course aggregate, using just enough water to obtain workability.

- (a) Posts shall be installed plumb at no more than 8 feet center to center.
- (b) Posts for fence and gates shall be embedded 36" minimum in concrete foundation.

Erect approximately 884 lineal feet of 72" high galvanized mesh with three strands of barb wire on top per project specifications.

Supply one (1) cantilever gate 16 feet in width.

MATERIALS:

FABRIC:

72" high 9 gauge mesh

TERMINAL POST:

2½" O.D. structural pipe

LINE POST:

2" O.D.

CANTILEVER GATE:

4" O.D. schedule 40 pipe

CANTILEVER GATE:

21/2" O.D. rails with 2" uprights for bracing standard

in industry.

BARB WIRE:

4 pt. 12½ gauge galvanized.

ELECTRIC:

We will furnish and install electric wiring from building west of this site (leased by Wards) to pump island and connect gas pump and furnish and install a pylon light on island as called for on plans.

Proposed by Morey Corporation E.J. Cunningham

March 20, 1979

Mr. Ed Cunningham C/O Kaplan, Goode & Co. 2 North Riverside Plaza Chicago, Illinois 60606

Re: Downers Grove, Illinois
Ward Proposed Parking Lot

Dear Mr. Cunningham:

After reviewing the gravel parking area behind 5355 Walnut, Downers Grove, with Mr. Steve Goode and Ward's operating management, we wish to express our interest in further discussing the leasing of this area. I am in receipt of a drawing of this lot which indicates approximately 100 available spaces. Ideally, Ward desires 125 to 150 spaces in the event that additional land adjacent to your existing lot could be transformed for this purpose. I would, also, like you to consider making the following three improvements which will be necessary for our needs:

- (1) Complete paving and striping of the subject lot and drive connecting it to the drive behind the building just west.
- (2) Complete fencing of the subject lot to Ward's standard specifications.
- (3) Addition of adequate lighting for security purposes.

In addition, I would like you to consider the following lease structure:

LEASE TERM:

10 years fixed (a necessity, since we concurrently wish to lease the facility just west for a like term).

OPTION TO EXTEND:

Two 5-year periods.

OPTION TO CANCEL:

None.

ANNUAL RENTAL:

To be determined subject to the landlord's agreement to making the previously requested improvements as preferred by Wards (\$3,300 is understood to be the base asking rental).

MAINTENANCE:

Upon completion of paving and fencing, Ward shall be responsible for all maintenance and patching to the point of complete replacement which shall be the landlord's responsibility.

REAL ESTATE TAXES:

To be paid by landlord.

Anything contained herein notwithstanding, further pursuit and subsequent execution of an arrangement to lease this lot must be contingent upon Ward's concurrently arranging an agreement to lease the facility at 5355 Walnut in Downers Grove.

After your review of this proposal, I will be glad to meet with you and Mr. Steve Goode in order to resolve any points of further discussion. I feel that Ward can offer you an excellent investment possibility in terms of both longevity and security. I hope to hear from you at your earliest convenience.

Very truly yours,

G. A. Palka

Regional Real Estate Dept.

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CC: W. F. Mathews

P. Angel

C. R. West

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R. Harvey - Chgo. Metro/Skokie Steve Goode - Kaplan, Goode & Co. OCCHERACE SCHEIL RESCHER BESCHER 6)××7064 SECTEX BURNESS ARE SECTED SECTION OF THE SECTED SECTION OF THE SECTED SECTION OF THE SECTED SECTION OF THE SECTION O

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- - (a) Grade, compact, and gravel the parking areas so as to be suitable for Tenant's intended use.
 - (b) Install a six (6) foot chainlink fence (with barbed wire and sliding gate) around the perimeter of the demised area.
 - (c) Excavate for, position, and install a certain Eight Thousand (8000) gallon gasoline tank, and pump, located as shown on Exhibit "B", tank and pump to be supplied by Tenant promptly after last execution of this Lease.

(d) Provide electric service to the gas pump.

MOR 000278

- (e) Install and erect a lighting pylon, and attach lighting fixtures thereto, as shown on Exhibit "B".
- (f) Lay concrete paving in and about the area of the gasoline pump as required.
- (g) Pave a hard surface, all weather, access drive from the pump area to the adjoining parcel also leased by Tenant.

All work required to be performed by the Landlord hereunder shall be performed in a good and workmanlike manner. The Premises shall be left at the completion of such work in a safe, clean and tenantable condition and in good order and repair. Landlord shall perform all work provided for hereunder in conformity with all applicable construction and building codes and with every applicable requirement of law or duly constituted authority of law, or any Board of Underwriters, Rating Bureau or similar organization having jurisdiction, of carriers of insurance on the leased Premises. See paragraph 19, continued on Page 4a.

20. Tenant shall take possession of the Leased premises within a reasonable time, not to exceed Thirty (30) days, after Landlord notifies Tenant that all Landlord's work pursuant to Paragraph #19 has been completed and that Tenant may have exclusive possession of the Premises. In the event the Landlord has not completed all work on or before June 1, 1980, Tenant may cancel this Lease by sending written notice to Landlord, whereupon this Lease shall be terminated and of no further force and event.

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1506 512 CFT CHAIN LINK 3 BEFFE WIFE AROUND LOT-LIPEE GATE ON DRIVEWRY. Gevel + GRATE Pone 12 70 11: - 2/6/17 21 110 ASPAIRLY FOUND - (17) 6FT-29 X45 - 6" 54/2 9 1541. EMOTY 2" CONDUIT WITCH TO KNIT-FROM CONCELLE PID 70 0236 STITE COUH ANDS FOR 1 JUNE USE MOR 000279

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The following provisions shall be incorporated and made part of this Exclusive Agency Agreement.

With reference to Item (1) under "The Owner Agrees" on the reverse side hereof, the commission schedule is as follows:

SALE:

6% of the first \$100,000 of sale price and 5% on the balance.

NET LEASE:

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- A. For a lease of more than one (1) year to and including six (6) years Commission is 8% of the first years rental plus 2% of the total rental reserved in the lease after the first year.
- B. For a lease of more than six (6) years Commission is 3-1/2% of the total rental reserved in the lease for the first twenty-five (25) years or less plus 1-3/4% of the total rental reserved for the balance of the term after twenty-five (25) years.

GROSS LEASE:

- A. For a lease of more than one (1) year to and including six (6) years Commission is 7% of the first years rental plus 2% of the total rental reserved in the lease after the first year.
- B. For a lease of more than six (6) years Commission is 3% of the total rental reserved in the lease for the first twenty-five (25) years or less plus 1-1/2% of the total reserved for the balance of the term after twenty-five (25) years.

PAYMENT:

Lease Commissions are payable on the date of signing of the lease.

OPTIONS:

- A. If a lease contains an option to renew and if the Lessee exercises such option, then a commission shall be paid on the additional period equal to the difference between the amount of commission due for the entire term and the amount of commission previously paid. Commission shall be paid at the time of such renewal.
- B. If a lease contains an option to lease additional space and the Lessee exercises such option then a commission shall be paid at rate set forth for a new lease.
- C. If a lease contains an option to purchase the property and if the Lessee exercises such option, then a commission on said sale shall be paid to the broker based on rates as indicated above, less any commission already paid for the unexpired portion of the lease. Such sales commission shall be paid at the time of said purchase.
- D. The above agreements as to option commission shall be made part of any lease.

EXCLUSIVE AGENCY AND COOPERATIVE LISTING AGREEMENT

To:

KAPLAN, GOODE & CO.

2 North Riverside Plaza Chicago, Illinois 60606 In consideration of our mutual agreements and of your efforts to secure a buyer or tenant for the property located at _____, Illinois, and described as the undersigned, hereinafter referred to as "OWNER", warrants his authority to execute this agreement and does hereby employ you as exclusive agent from ______19____to_____ ____with sole authority to offer said property for sale or lease, including authority to advertise and to place "For Sale" or "For Rent" signs thereon, on the following terms and conditions: TERMS OF SALE: _____ TERMS OF LEASE: ___ THE OWNER AGREES: (1) To pay you a real estate brokerage commission in an amount determined by the applicable rate as indicated in schedule on reverse side hereof (a) for your services in procuring a purchaser or lessee of the property on the above terms or such other terms as the OWNER shall accept, or (b) if the property is sold or leased by you, by OWNER, or through any other person, during the period hereof, or (c) if the property is sold or leased within six (6) months after terminating date hereof to a purchaser or lessee, or anyone on behalf thereof, to whom it was submitted by you and whose name has been registered with OWNER. (2) To cooperate with you in bringing about a sale or lease of said property and to refer to you all inquiries of brokers or others interested in said property, that all negotiations or dealings shall be with and through you as agent, and that you may list this property with cooperating brokers. (3) In the event your authority is revoked or said property is withdrawn from sale or lease during the period of this agreement, then to pay you as compensation for your services and as liquidated damages an amount equivalent to a brokerage commission based upon the sale or lease price as above stated. (4) To reimburse you for advertising expenses as follows: THE AGENT AGREES: (1) To inspect the said property, to secure and compile written information with respect thereto and to make an earnest and continued effort to sell or lease said property at the terms hereinabove set forth. (2) TO LIST THIS PROPERTY WITH OTHER ACTIVE INDUSTRIAL REAL ESTATE BROKERS AND TO COOPER-ATE FULLY WITH ALL REAL ESTATE BROKERS. (3) To promote and advertise said property for sale or lease in the manner that in the judgment of the agent will aid in securing prospects for the OWNER'S property. (4) To send information and copy of any descriptive brochure to prospective buyers and to others as the OWNER requests. (5) To take prospective buyers or lessees through the said property at convenient times and from time to time to advise OWNER as to sale or lease conditions upon his request. In the event the property is not sold or leased during the period of this agreement, then, immediately upon its expiration the agent shall furnish the OWNER with a list of all persons to whom the property was submitted. MOR 000282 Owner ACCEPTED: KAPLAN, GOODE & CO.

(Reverse Side Incorporated Herein)



ELLSWORTH ELECTRONICS INC.

Real Estate Taxes

Lot 32 & Bldg \$ 5,146.02 \$ 5,631.10 \$ 6,041.56 \$ 8,256.74 \$ 8,270.46 \$ 8,697.60 \$ 9,422.42 \$ 10,289.50 \$ 10,857.88 \$ 13,470.98 \$ 13,647.76 \$ 14,009.74 \$ 15304.60	\$ 1,172.94 \$ 1,172.94 \$ 1,283.50 \$ 1,377.06 \$ 1,324.96 \$ 1,842.90 \$ 1,938.08 \$ 2,099.56 \$ 2,292.78 \$ 12,307.50 \$ 9,804.78 \$ 9,933.46 \$ 10196.88 \$ 11352.02	Lot 34 \$ 688.88 \$ 753.82 \$ 808.76 \$ 778.16 \$ 1,082.34 \$ 1,138.24 \$ 1,233.08 \$ 1,346.54 WALDS MARTIMEN 1341.22 2827.5 1452.04 3061.14 1471.10 3101.38 1510.14 3183.60 1906.28 3940.28	\$ 7,668.42 \$ 8,277.38 \$ 10,359.86 \$ 11,195.70 \$ 11,773.92 \$ 12,755.06 \$,13,928.82 3 \$27,334.18 \$ 27,788.94 \$ 28153.70 \$ 28900.36	\$ 660.58 \$ 608.96 \$2,082.48 \$ 835.84 \$ 578.22 \$ 981.14 \$ 1,173.76
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REGIONAL ENGINEERING Chicago, 111. - June 30, 1980

D. G. Walnut Building Account c/o Olivieri Bros. Inc. 800 East 120th Street Chicago, Illinois 60628

Re: Downers Grove, Illinois Service Center Parking Lot

Gentlemen:

Mr. West, our Engineering Manager, has stated that the 10,000 gallon gasoline tank can be installed without the concrete holddown pad as most of the major oil companies do it this way. The tank must be on 12" of pea gravel, and be covered with it up to the surface. The top of the tank shall be three feet below finished grade, or per code, whichever is greater.

Very truly yours,

C. R. Olson Project Supervisor

do

cc: C. R. West
B. F. Pardell
/ E. J. Cunningham

THE MOREY CORP.

February 6, 1980

Downers Grove National Bank Curtiss and Main
Downers Grove, Illinois 60515

Attention: Loan Department

Reference: Loan No. 54855

Gentlemen:

Please accept this letter as your authorization for assignment of rents for Trust 78-309.

Richard R. Morey, President

Edward J. Cunningham, Vice President

11

DOWNERS GROVE NATIONAL BANK MAIN & CURTISS STREETS DOWNERS GROVE, IL 60515

		_	3-12-80
DATE:	•	0	3-12

LETTER OF DIRECTION

DOCT	JMENTS: A	ssignment	of Rents to Downers Grove Nationa
	В	ank. (att	ached) : The Mark Comments of the Comments of
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ELIVER TO:_	· · · · · ·	•••	SIGNATURES:
• •	· • • • • • • • • • • • • • • • • • • •		THE MOREY CORPORATION
	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	BY: RR Warrey
i i			ATTEST: Edward Stallows



DOWNERS GROVE NATIONAL BANK.

Main and Curtiss • Downers Grove, IL 60515 • (312) 968-6300

March 7, 1980

Mr. Ed Cunningham
The Morey Corporation
2659 Wisconsin Avenue
Downers Grove, Illinois 60515

Dear Mr. Cunningham:

Re: Trust No. 78-309

Some time ago, Mr. Starmann spoke with you requesting that you forward to the Trust Department a letter of direction authorizing the Trustee to sign an Assignment of Rents. We have not yet received that letter in a form which specifically authorizes the execution of the Assignment.

I have enclosed for your use a sample form of the letter which would enable the trustee to proceed with the execution of the document. Please return the letter of direction signed by the proper beneficiaries of the trust if the letter is acceptable to you.

Do not hesitate to call if you have any questions.

Very truly yours,

faye/D. Adfiman

Trust Assistant

FDH

enclosure (1)

BAUER & HOTTE, P. C. ATTORNEYS AT LAW 110 SCHILLER STREET ELMHURST, ILLINOIS 60126

ROBERT W. HOTTE JAMES G. BAVER TERRACE 4-3960 AREA CODE 312

January 29, 1980

The Morey Corporation 2659 Wisconsin Avenue Downers Grove, IL 60515

Attn: Mr. Edward J. Cunningham

Re: Montgomery Ward Lease

Dear Ed:

Enclosed please find original and four copies of proposed Exhibit A to be attached to the lease with Montgomery Ward Corporation.

I have taken the legal description from the photocopy of the 1977 Du Page County Real Estate Tax Bill which you furnished to me on January 28, 1980. I note that that description covers a parcel with approximate dimensions of 320 by 200 feet and is located on Wisconsin Avenue.

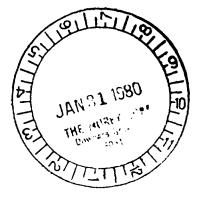
The original and one copy of the Exhibit should be attached to the two copies of the Lease and initialed (along with Exhibit B) by Downers Grove National Bank.

Very truly yours,

BAUER & HOTTE, P. C.

James G. Bauer

JGB:ba Encls.



MOR 000288

1980

between Downers Grove National Bank and Trust, as Trustee under Trust No. 78-309

herein called the "Landlord," and MONTGOMERY WARD & CO., INCORPORATED, an Illinois corporation, with General Offices at 619 West Chicago Avenue, Chicago, Illinois, herein called the "Tenant," Regional 140 South State Street,

WITNESSETH:

* the date Tenant takes possessi of the demised Premises provid Landlord has completed the wor described in Paragraph #19 her

The Landlord leases to the Tenant for a term commencing on *
 , and continuing to and including **

, the premises located in the City of Downers Grove Supage , and State of Illinois

, County of Dupage described as follows:

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** Ten (10) years after the first day of the first month followi the month in which Tenant take possession.

See Exhibit "B", which is attached hereto and made a part hereof.

including all improvements now or hereafter thereon and all appurtenances thereto. Said premises are commonly known as 2663 Wisconsin Avenue.

- 2. The Tenant shall pay rent to the Landlord at the annual rate of Twenty Five Thousand Seven Hundred and No/100

 Dollars (\$ 25,700.00) payable in equal monthly installments on or before the tenth (10th) day of each calendar month for the current calendar month. Rent for part of a month shall be prorated. Anything contained herein to the contrary notwithstanding, the Tenant's obligation to pay rent hereunder shall not commence until actual and exclusive possession of the leased premises has been delivered to the Tenant and all repairs, alterations and improvements necessary to fit the premises for occupancy and use by the Tenant shall have been completed, all as contemplated by Paragraphs 19 & 20 hereinbelow.
 - 3. All payments to the Landlord may be made by checks or drafts payable to the order of

The Morey Corporation and mailed to such payee at 2659 Wisconsin Avenue Downers Grove, Illinois 60515

4. The Tenant may, by written notice mailed or telegraphed to the Landlord One Hundred Eighty (180) or more days before the end of the term, extend the term to-and including—an additional Five (5) years upon the same terms and conditions as herein set forth, except that rent shall be adjusted upward oncement at the commencement of the extended term by the percentage in the CPI since the commencement of the term, but in no event shall the rent be increased by more than 75%.

5. If the Tenant has exercised the foregoing option to extend the term, it may, by written notice mailed or telegraphed to the Landlord One Hundred Eighty (180) or more days before the end of the term as extended, further extend the term to and including for an additional Five years upon the same terms and conditions as herein set forth, except that rent during the further extended term shall be adjusted upward oxygeneous at the commencement of the further extended term by the percentage change in the CPI since the commencement of the extended term, but in no event shall rent be increased by more than 75%.

graphed to the Landlord () or more days before the effective date of the cancellation, may cancel this lease as of

All rent and other charges paid in advance for any period after the effective date of such cancellation

- 7. The Landlord will not interrupt or disturb any entrances, exits, or approaches, or deprive the premises of any light or air now enjoyed by the premises.
- 8. The Landlord covenants and agrees to maintain the Tenant's quiet possession and enjoyment of the entire leased premises during the term hereof unddoughnous hand agreement agreement premises made all enjoyment premises made all enjoyment premises made all enjoyment premises made all enjoyment agreement and all loss, damage and claims for damage to person or property:

 ng from his failure to comply with this agreement.
- 9. The Tenant, at its own expense, may from time to time install on the premises any equipment fixtures and improvements and remove them and may make any alterations or additions in a good and workmanlike manner in and to the premises and may erect or remove any signs on the premises which it may deem necessary or suitable for the conduct of its business. (except advertising signs)
- 10. Notwithstanding any other provision of this lease, the Tenant shall not be liable for any loss or damage to the premises caused by fire or the elements, whether or not such loss or damage shall result from the Tenant's negligence. Admittings with the execution is negligence. Admittings with the execution is negligence. Admittings with the execution is negligence. Admittings with the execution is negligence. Admittings with the execution is negligence. Admitting the execution is negligenced and the execution is negligenced and the execution is negligenced and the execution is negligenced and the execution is negligenced and the execution is negligenced and the execution is negligenced and the execution of the execution of the execution is negligenced and the execution of the execution is negligenced and the execution of the execution is negligenced and the execution of the e
- 11. If any default of either party continues uncorrected for sixty (60) days (thirty (30) days in the case of a default in the payment of rent) after receipt of written notice from the other party, stating with particularity the nature and extent of the default, the party giving such notice may cancel this lease by written notice of cancellation. The Characteristics of the default, the party giving such notice may cancel this lease by written notice of cancellation. The Characteristics of the Charact
- 12. The Tenant may sublet the premises or assign this lease; provided, however, that the Tenant shall not be relieved from its obligations under the lease by such subletting or assignment without the Landlord's consent.
- 13. The Tenant may holdover at the end of the term, without extending the term or renewing the lease, project did the Landlord, at least thirty (30) days prior to the expiration of the term, has not given written the tenant to vacate the premises at the expiration of the term. If the Tenant does so holdon, the tenancy thereafter shall continue upon the terms and conditions of this lease in effect during the last month of the term until terminated by either party by notice mailed to the other party at least thirty (30) days before the effective date of such termination.
- 14. The Tenant, on the last day of the term, or on the last day of any holdover, will surrender the premises in as good condition as when the Tenant takes possession, except for ordinary wear and tear, repairs and replacements required to be made by the Landlord, loss by fire or casualty, loss by any cause beyond the Tenant's control, and alterations, additions, and improvements herein permitted.

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- 15. Tenant shall pay for all gas and electricity used by it on the demised premises.
- 16. (a) The Landlord shall pay when due all taxes and assessments of every kind and nature which have been or which shall during the term of this lease be levied, assessed or otherwise imposed upon the leased premises, including all improvements now or hereafter thereon, but nothing contained in this Section 16 shall be deemed to obligate the Landlord to pay any taxes levied or assessed against the personal property of the Tenant located in the leased premises or any taxes commonly known as "chain store taxes" imposed on the Tenant by reason of the fact that the Tenant operatesmore than one place of business in the jurisdiction imposing such tax, which personal property taxes and chain store shall be paid the Tenant.

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- (b) The Tenant, upon receipt of satisfactory evidence of the amount of such excess, shall reimburse the Landlord the amount by which the general real estate taxes levied and assessed against the leased premises for each subsequent tax fiscal year during the term of this lease exceed the general real estate taxes levied and assessed against the leased premises for the third tax fiscal year following Tenant's occupancy; provided, however, that the Tenant shall be obligated to pay only its promate share of such excess taxes for the tax fiscal year during which its obligation to pay rent under this lease ceases, said promata share to be based upon the number of days of the then current tax fiscal year for which the Tenant has been obligated to pay rent under this lease.
- (c) Prior to the payment thereof, the Landlord shall submit to the Tenant copies of all general real estate tax bills, a portion of which the Tenant may be obligated to pay to the Landlord under this Section 18, together with a statement showing the computation of the amount owed by the Tenant to the Landlord hereunder, supported by such evidence as the Tenant may reasonably require, whereupon the Tenant (unless it shall contest such taxes as hereinafter provided) shall pay to the Landlord within thirty (30) days after receipt of such bills, statement and other evidence, that portion of such general real estate taxes required to be paid by the Tenant hereunder.
- (d) In the event the Tenant shall desire to contest the validity or amount of any tax, a portion of which it may be required to pay to the Landlord hereunder, the Tenant, within thirty (30) days after being notified of the amount thereof, shall notify the Landlord of its intention to do so, whereupon the Landlord shall defer payment of any such tax so long as the validity or amount thereof shall be contested by the Tenant in good faith and by proper proceedings, except that the Landlord may make such payments under protest or take such other steps with regard to said tax as will not prejudice the Tenant's opportunity to successfully contest the validity or amount thereof. The Landlord agrees to render to the Tenant all assistance reasonably possible, without expense to the Landlord, in contesting the validity or amount of any such tax, including joining in and signing any protest or pleading which the Tenant may deem it advisable to file. Should any rebate be made on account of any tax a portion of which has been paid by the Tenant to the Landlord hereunder shall belong to and be paid to the Tenant.
- 17. Tenant shall maintain the parking lot areas, fence, and paved areas in good condition and repair, and shall also, as necessary, maintain, repair, and replace the gas pump and lighting facilities on the demised premises.
- 18. Tenant shall carry General Liability insurance, or at its option be self-insured, with limits of not less than Two Hundred and Fifty Thousand Dollars (\$250,000.00).

MITARGESTRIC PARTHERFETTER MERKER MERKENDEN FUNDEN KUNN FRIGORKER GENTRREGORKEN MITERGOSTRIC DOTTUGEN FRIGORIE MONTRESSEN FON TRIGORIA FROM TRIGORIA FRIGORIA FRIGORIA MITER MONTRESSEN FRI MONTRESSEN FON FRIGORIA FROM FRIGORIA FRANCIA FRANCIA FRIGORIA FRIG дуданда радана кабала са Бола о объеба сързана остоби се объем на остоби в остоби са Бола о остоби в доби и доби

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- * approval of plans by Tenant as hereinafter specified.
 19. Within Thirty (30) days after MANNEXE CONDING STATES, Landlord shall commence, and thereafter diligently prosecute to completion, the following Landlord's work, as also more fully described an Exhibit "B", which is attached hereto and made a part hereof:
 - (a) Grade, compact, and gravel the parking areas so as to be suitable for Tenant's intended use.
 - (b) Install a six (6) foot chainlink fence (with barbed wire and sliding gate) around the perimeter of the demised area.
 - (c) Excavate for, position, and install a certain Eight Thousand (8000) gallon gasoline tank, and pump, located as shown on Exhibit "B", tank and pump to be supplied by Tenant promptly after last execution of this Lease.
 - (d) Provide electric service to the gas pump.
 - (e) Install and erect a lighting pylon, and attach lighting fixtures thereto, as shown on Exhibit "B'.
 - (f) Lay concrete paving in and about the area of the gasoline pump as required.
 - (g) Pave a hard surface, all weather, access drive from the pump area to the adjoining parcel also leased by Tenant.

All work required to be performed by the Landlord hereunder shall be performed in a good and workmanlike manner. The Premises shall be left at the completion of such work in a safe, clean and tenantable condition and in good order and repair. Landlord shall perform all work provided for hereunder in conformity with all applicable construction and building codes and with every applicable requirement of law or duly constituted authority of law, or any Board of Underwriters, Rating Bureau or similar organization having jurisdiction, of carriers of insurance on the leased Premises. See Paragraph 19, continued on Page 4a.

- 20. Tenant shall take possession of the Leased premises within a reasonable time, not to exceed Thirty (30) days, after Landlord notifies Tenant that all Landlord's work pursuant to Paragraph #19 has been completed and that Tenant may have exclusive possession of the Premises. In the event the Landlord has not completed all work on or before June 1, 1980 , Tenant may cancel this Lease by sending written notice to Landlord, whereupon this Lease shall be terminated and of no further force and event.
- 21.1 Within thirty (30) days from the date of last execution of this Lease, Landlord shall remember, provide and deliver to Tenant (at the office of Tenant) a leasehold title insurance policy of a title company acceptable to Tenant in the amount of ONE HUNDRED THOUSAND and No/100 (\$100,000.00) DOLLARS covering the date hereof, or if Tenant so elects, its preliminary report on title or title binder in said amount of \$100,000.00 showing title in Landlord, subject only to matters to which this Lease is subject. All such title costs and premiums to be paid by liesal back.

If the report on title, title binder, or leasehold title insurance policy, so required, discloses any defects in title (other than such usual objections contained in Leasehold policies and matters to which this Lease is subject) Landlord shall, upon tendering the same to Tenant within thirty (30) days from the date of last execution of this Lease, have sixty (60) days, from the date which such title report, binder, or leasehold title insurance policy bears, to cure such defects and to furnish such title report, binder, or leasehold policy showing such defects urec or removed. If such defects in title are not so cured within sixty (60) days, enamay, at its option, terminate this Lease. In the event this Lease is so terminate all members, decounts and instruments shall be returned to the respective.

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Paragraph 19 (continued)

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Within Thirty (30) days after the last execution of this Lease, Landlord shall prepare appropriate plans, specifications and/or working drawingscovering the foregoing work, and submit same to Tenant for approval.

In the event Landlord does not complete the work diligently, Tenant may, at its option, cause the work to be completed and deduct the cost thereof from rent.

- 21. Broker's Commissions If there are any Broker's fees or commissions payable in connection with the bringing about of the execution and delivery of this lease, the Landlord agrees that Landlord will pay same, that the Tenant shall not be liable for such fees and commissions and that the Landlord will indemnify and save the Tenant harmless from any and all claims for such fees and commissions.

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LANDLORD:

ALL STREET, NORTH

22. Landlord and Tenant acknowledge that Tenant is negotiating a Lease of substiantially like terms and conditions for Premises adjoining the Landlord's Premises, and that Tenant's use of the demised premises is not feasible without the use of said adjoining Premises. Notwithstanding anything in this Lease to the contrary, Tenant's rental obligation hereunder shall not commence until Tenant has taken possession of the adjoining Premises. When the commencement date of both leases has become fixed, Landlord and Tenant agree to execute a Lease Supplement fixing the commencement date and the termination date of the Lease.

If, due to fire, the elements, or the exercise of the right of eminent domain or other authority of law, or any other cause, the premises shall become untenantable, dangerous or unfit for the Tenant's use, rent payable under this lease shall abate during the continuance of that condition. If the conditions which give rise to an abatement of rent under this section continue for a period of ninety (90) days, then the Tenant may, at any time within sixty (60) days after such ninety (90) day period, cancel this lease and terminate its tenancy by giving the Landlord written notice of its intention to do so.

All notices, approvals, or requests in connection with this lease shall be sent by registered mail or telegram. Notices to the Landlord may be addressed to the Landlord at the address set forth in Section 3 above. Notices to the Tenant shall be addressed to Montgomery Ward & Co., Incorporated, at 140 South State Street, Chicago, Illinois, attention: Regional law Department.

Employees or agents of the Tenant have no authority to make or agree to make a lease. This instrument shall not be binding upon the Tenant until it has been executed on behalf of the Tenant by one of its corporate officers. No act or omission of any employee of the Tenant shall alter, change, or modify any of the provisions of this lease. Any alterations, changes, and modifications of this lease shall be effective only when made in writing and executed on behalf of the Tenant by one of its corporate officers.

All the grantors of the term shall be bound jointly and severally by this lease. This lease shall inure to the benefit of and be binding upon, the respective heirs, legal representatives, successors and assigns of the Landlord and the Tenant.

IN WITNESS WHEREOF, this lease has been duly executed under seal as of the first hereinabove written.

TENANT:

MONTGOMERY WARD & CO., INCORPORATED
By: J.B. Gelling, Senior Vice President
Attest: G. Fletcher Ward, Assistant Secretary
WITNESSES:

STATE OF ILLINOIS COUNTY OF COOK SS:

A CONTRACTOR OF THE STATE OF TH

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	and state aforesaid, DO HEREBY CERTIFY that J.B. Gelling, Senior Vice President, and G. Fletcher Ward, Assistant Secretary, of MONTGOMERY WARD, & CO., INCORPORATED an Illinois corporation, who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such J.B. Gelling, Senior Vice President, and G. Fletcher Ward, Assistant Secretary, respectively, appeared before me this day in person and acknowledged that they signed, sealed
	and delivered the said instrument as their free and voluntary act and as such Senior Vice President and Assistant Secretary, respectively, and as the free and voluntary act of said corporation for the uses and purposed therein set forth.
and the second of the second	Given under my hand and notarial seal, thisday of 19:
The second of th	Notary Public
en demonstration de see de la la la la la la la la la la la la la	(ACKNOWLEDGMENT-INDIVIDUAL)
	STATE OF COUNTY OF SS:
	I, a Notary Public in and for the county and state aforesaid, DO HEREBY CERTIFY that and
	of who (is) (are) personally known to me to be the same person(s) whose name(s) (is) (are) subscribed to the foregoing instrument appeared before me this day in person and acknowledged that (he) (they) signed, sealed and delivered the said instrument as (h) (their) free and voluntary act for the uses and purposes therein set forth.
	Given under my hand and notarial seal, thisday of19
राज्यस्थान समुद्रा । १००० । ।	Notary Public
23 - 23 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ACKNOWLEDGMENT-CORPORATE)
	STATE OF COUNTY OF SS:
	I. , a Notary Public in and for the county and state aforesaid, DO HEREBY CERTIFY that President, and Secretary of an analysis of the county and president.
The second secon	names are subscribed to the foregoing instrument as such
	President and Secretary, respectively, appeared before me this day in person and acknowledged that they signed, sealed and delivered the said instrument as their free and voluntary act and as such President and Secretary, respectively, and as the free and voluntary act of said corporation for the uses and purposes therein set forth.
	Given under my hand and notarial seal, thisday of
	Notary Public

M:-K79

EXHIBIT A

Lot 34 (except the North 385 feet thereof) in ELLSWORTH PARK Unit Number 5, being a Subdivision in the Southwest Quarter of Section 12, Township 38, Range 10, East of the Third Principal Meridian, according to the Plat thereof recorded January 10, 1962 as Document R62-993 in DuPage County, Illinois.

EXHIBIT A

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EXHIBIT A

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part	121	of	Act	451.	1994,	81
amended.						

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

lease	e print or type.					proved. OMB No.	
	UNIFORM HAZARDOUS WASTE MANIFEST	11.0000060	US EPA ID No. 1918	Manifest Document No. 17365	2 Page 1 of 1	is not req	in the shaded areas uired by Federal
	3. Generator's Name and Mailing Addres MOREY CORP. 198 MOREY FIR., WOODRIDGE, IL	60517	63 0) 754~23 00		MA	NEGR	ment Number
5	4. Generator's Phone () 5. Transporter 1 Company Name FNVIRONMENTAL WASTE SERVICES		6. US EPAID	Number 07047		in a contract	
-	7. Transporter 2 Company Name		8. US EPA ID				
11	OZINGA TRANSPORTATION SYSTEM 9. Designated Facility Name and Site Ad		ILROOR		Fallpinspor	ter's Phone	
113	EO RESOURCE RECOVERY, INC. 36345 VAN BORN RD. RONKLUS, MI 48174		M1006097	5844	HUZEUN	Aparla I	1)26-1100
1	II. US DOT Description (including Proper HM ID NUMBE	Shipping Nam	e, Hazard Class, and	12.Conta	iners	4 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 TO 1 TO	I Weste
a		NID. N.O.	S. (ALIPHATIC	₩ ₀ .		Jantity W	mountain state
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		et Land					
	5. Special Handling Instructions and Addition of the Content # (638) 75 6. GENERATOR'S CERTIFICATION: 1 hereby declar classified, packed, marked, and labeled, and are in all W I am a large quantity generator, I certify that to be economically practicable and that 1 have present and future threat to human health and	that the contain respects in proper	to of this consignment are condition for transport by high m in place to reduce the v ceticable method of treatme	way according to a column and touch touch the column and touch touch the column are discounted to the column and touch the column are discounted to the column ar	ppricable intern y of wasts ge sposal current	acone and neuon nerated to the d ty available to :	legree I have determine me which minimizes ti
-	generation and select the best waste management and Printed/Typed Name	ethod that is availab	Signature				Date Menth Day Yea
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	Printed Typed Name	cerpt of meter	Signature /		·		Menth Day! Year
1	8. Transporter 2 Acknowledgement of Re- Printed/Typed Name	ceipt of Mater	Signature				Month Day Year
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9. Discrepancy Indication Space				 		
20	O. Facility Owner or Operator: Certification Item 19.	of receipt of hi	azardous materials cove	ored by this ma	nifest excep	t as noted in	Date
	Printed/Typed Name		Signature				Month Day Year
PA F	Form 8700-22 (Rev. 9/88)			 M	OR 0002	99	EQP 511 Rev. 5/90

GENERATOR 1ST COPY

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Federal and State regulations provide for additional requirements, but and ideal of the explosion bone, regarding the use and menegement of this form (40CFR, $(adf)^{2}$) for $(adf)^{2}$.

Additional information such an "Rejected Load Procedures", state call (1997) with 1997 to 1997 to 5 sunship feat forms, etc., can be obtained by contacting the Michigan Department of the Service of the Userty (MDEQ), Waste Management Division's (WMD) Internet Home Page at: http://www.dec.atine.mu.us/wmd.or.ynu.may. contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MCCC.

Complete all items on the manifest. Error TN/A* if any Item does not apply. Leave Items that may be needed later brank, such as second transporter.

from 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number is trule assigned number must be obtained and used. The generator of the waste must enter a unique "...s mgt manifest document number (m g. 000001).

fram 2. Page number 1 of 1 should be recorded unless a continuation share a used on which was after torpi number of pages, counting the initial manifest page, should be shown

from 3. Enter the name of the generator and the mailing address to while the maintest should be mailled If the address of the sits at which the waste was placed into transport that is a fifteen to the sits. address record the eite address in Item J

Rem 4. Enter a telephone humber on success were none, where which is used eight on the good reprince be reached in the event of an errie () I is unusually provided their kindled load.

NOTE: The 24 hour emergency and (a) is warned within the service is seen also different troops the generator's lancing institution.

ttem 5. Enter the company over 6 or indicate has produced who will be spret the worker

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from th. Enter the company name and site address of the facility designated to receive the waste listed on

Rem 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item. 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

Ingress. Efficient an Minibility of the whose Pola hazardous niquenal regulated by fill 5 (507) (See 49) 374 of 1000 precise leased 3.5 (500) analong association or working Proper Scrowing Native Property filter in the property of the control of the property and professional energy and the property of the propert

Nem 12. Enter the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry

DM - Metal drums, barrers, kegs.

UN = Prooden drum, pieters, kegs

. Five board or nisson in lens traines ways.

fP = Talks, portible

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G = Gallons (liquids only) -

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Carrolline to the

citers tructed only)

K = NOOYAND

M = Mobile forum (1000 kg)

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The Control of the control of the property of the property of Apart Control of the First transporter. That property must acknowledge acceptance in the woste described on the mannest by signing and entering the disc

Rem 18. If applicable, or in the name of the person accepting the waste on behalf of the section $r_{\rm A}$ for all first constraints and incomedite acceptance of the waste described on the manded by $s_{\rm BC}$ allow of the construction

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item 20. Print the name of the person accepting the weste on behalf of the designated facility. That resisce much as knownest prosceptance of the waste described on the manifest by eigning and emering mediate or least

NOTE: MUEQ "Helaund Load Procedures" provides guidance for partial or total load rejections.

Only the following information in the shaded area is a State of Michigan requirement:

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性em B、H、May Losse parced by other states

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INTERNATIONAL SHIPMENTS

Universal Waste

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. From the United States.*

importal Shipments of hazardous and Part 121 regulated waster must be accompanied by a U.S. EPA thifo in trazardous Waste Manifest. Any person functioning as the U.S. importer, as defined in Part 111, in 1975 third the manifest as required in R799 9310.*

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MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dutes manifest) romove the white and gold banded copies and give the remainder of the manifest oppies to the transporter. Send me white copy to MDEQ no later than the tenth day of the month following the shipment. For shioments of wastes being transported to a designated facility outside of Michigan when an out-of state will hist is used mad to the MDFQ a photocopy of the manifest when the shipment is placed into transpoliation and makila photocopy of th<mark>e second generator mandaur copy, when received</mark>

TRANSPORTER: Upon delivery to the designated (or afternate) facility, and that facility signs and datas the manifest, the condry banded copy will be returned to you. If more than one transporter is used, the agrafact in to the lock 43 and supplied to the previous transporter acknowledging the receipt of the shipmust lighter or sugarity, for lithe concrybenced copy stays with the manifest until the shipment reaches. the presignated facility

DESIGNATED FACILITY: Lipon signing and daring the manifest as received, give the canary banded and with the training kinds. Four-line than hide banders copy to the generator. Mail the pank banded bugy to the memoins to buje on griskolot ittem out to vuo noti en nort jession Quiuse

ALIONESS ALL MOED MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY O BOX 30038 LANSING MI 48809-7538

MOR 000300

The reable recording burden for this collection of information is estimated to average 31 minutes for generators, 16 minutes for transporting, and 16 minutes for transporting for transporting and disposal facilities. The burden associated with reading the regulations is estimated at 1 minutes for the collection of information is estimated to average 6 minutes for generates for present and 6 minutes for present actions and disposal facilities. The burden associated with reading the regulations is estimated at 1 minutes of 5 minutes annually. Burden means the lotal time, effort or financial resources expended by persons to generate, maintain, return, or disclose or provide information to or for a Federal agency.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently vaid OMB control number. The OMB numbers for EPA's regulations are fisted in 40 CFR Part 2 and 45 CFI Chapter 15. Send comments regarding these bursts or any other aspect of this collection, including suggestions for reducing the burden, including through use of automated collection techniques to the Director, OPPE Requisitory Information Division, U.S. Environmenta Protection Agency (2.37), 401 M.St., S.W., Washington, D.C., 20460 and to the Office of Information and Regulatory Affairs, Office of Menagement and Budget Agencies. Desk Officer for EPA, 725 17th Street. N.W., Washington, D.C., 20513. Include the OMB control number in any correspondence.



LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Wasto
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 200 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment)

36345 Van Born Road

Romulus, MI 48174

FRA ID # MID 060 975 844

EPA 1D # WILD 000 124 631		EPA	TO # MID 048 030	CPA ID # MID 060 975 844	
Generator Name_	The Morey (Corp.	Genera	ator USEPA ID No	ILG000060910
Generator Address	100 Morey D	or., Wood	dridge, IL	60517	
State Manifest No	my fo	17968	Manife	st Doc. No	17565
			Incontrol		
In Column 1 id	entify <u>all</u> USEPA hazar	•	INSTRUCTIONS	nie wasta chiamont	
	hoose the appropriate to			-	ewater (WW).
-			-	•	ated Soil" or "Debris" if the
	•		• •		(c) (soil) or 268.45 (debris).
In Column 4, ci	rcle the letter of the app	propriate par	agraph from Pages	1-2 of this form.	
In Column 5, fo	r F001-F005, F039, D00	01-D043, Deb	ris & Contaminate	d Soil wastes, enter t	he Reference Number(s) from t
EQ Resource G	uide-LDR/UHC Const	ituent Table 1	for any constituents	subject to treatment	t in your waste stream.
Manifest Line Item	1. USEPA HAZARDOUS WASTE	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED?	5. REFERENCE NUMBER(S) of liazardous Constituents contained in the waste. Complete for F001-F005, F039,
 	CODE(S)		 	(Circle one) B B C D E F	D001-D043, Soil & Debris wastes.
11.A	D001	Ø www	High TOC	G H I J K L M S	
11.B		O WWW		A B C D E F G H I J K L M S	
11.C		O WWW		A B C D E F G H I J K L M S	
11.D		O WWW		ABCDEF GIIIJKL MS	·
hereby certify that nowledge and infor	mation.	. 1		uments is complete a	and accurate to the best of my MOR 000301
rinted Name_FR		7 '.		Date 10-90	

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A

(CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and

examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the approximation of the prohibited wastes.

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CPR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS, I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE, FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY, HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- H. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT
 TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN
 WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have
 personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification
 and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater
 organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part
 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have
 been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I
 am aware that there are significant penaltics for submitting a false certification, including the possibility of fine and imprisonment.
- I THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penaltics for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOVE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of line and imprisonment.



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-400-272-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-400-424-8662 24 HOURS PER DAY.

Please print or type.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

	DO	NOT WRITE IN	THIS	SPACE	
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and Part 121 of Act 451, 1994 amended.
amended.

Form Approved. OMB No. 2050-0039

nal and/or civil peralties under Section 324.11151 or 324.12116 MCL.

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EPA Form 8700-22 (Rev. 9/88)

് പ്രസ്ത്രം പ്രസ്ത്രങ്ങളെ പ്രവർശ്യാരണങ്ങളാണ് 1965 വരുന്നു. വിവര്ഷ്യ വരുന്നു വരുന്നു വരുന്നു. വരുന്നു വരുന്നു വ സ്ത്രേഷ്ട്രസ്ത്രോ ഇന്നു ഇന്നോ ഇന്ത്രയുടെ അത്രസ്ത്രം വരുന്നു. വരുന്നു വരുന്നു വരുന്നു വരുന്നു. വരുന്നു വരുന്നു ونجر

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Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (400FR, 440FF) 14-11.

Additional information such as "Rejected Logid Proofdures", state assigned continuous includes numbers, manifest forms, etc., can be obtained by contacting the Michigan Department of fins run anto faculity (MDEG). Waste Management Divesion's (WMD) Internet Home Page at: http://www.nteq.unite.n.cc.and.xyou.may.contact the Manifest Unit directly. at (517) 373-1217. Continuation sheets are not supplied by MOEG.

Complete all terms on the manifest. Enter "N/A" if any item does not auxily. Leave items that may be needed later blank, such as second transporter.

rm 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 mainfested stripments where a generator does not have a U.S. EPA assigned number a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001),

Item 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which case the total number of pages, counting the initial mentest page, should be shown

Item 3. Enter the name of the generator and the mailing address to which the maintent should be nighted. If the address of the site at which the waste was placed into transportation is ordered from the making address record the site address in from J.

Item 4. Enter a telephone number (number $\{n, h, d, r, g\}$ is a number, an authorized age -r in generator can be reached in the event of an emerge (n) and (r, g) problem (n) is reached (oil).

NOTE: The 24 hour emergency phone has been educated for a hazardous materials is the highest may be different from the generators only to in their

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Rem 6. Enter the transporter's U.S. EPA, we've digit identification pumber, $|F_{tr}|^2 a_{tr}/(2\pi) \Delta d$ stated shipments where a transporter is wis not by length |S| EPA assigned number is stated as $g_{tr}/(2\pi) \Delta d$. be used

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m 6. Enter the company name and site address of the facility designated to receive the waste listed on this manifest

Rem 10. Enter the U.S. EPA tweive digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assumed number is to be used.

Rem 11. Firser an X in the HM box II the waste is a hazardous material regulated by U.S. DCT. (See 49. CFP 1721. Sintscript is so red U.S. DCT shipping basin shurr convoling Proper Sonsong Notice instruc-ficies of Cissan III. Incorpor (UNINA), and proving group for each waste as leaveling in 49 CFR 172. State (Control of the Control of the

Rem 32. Enter the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry.

DM - Metal crums, patrels, kegs

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item 20. Frint the name of the person accepting the waste on behalf of the designated faquity. That person must acknow edge acceptance of the weste described on the manifest by signing and entering the gate of race or

NOTE: MOED "Pojected Load Procedures" province guidance for partial or total lead, rejections

Only the following information in the shaded area is a State of Michigan requirement:

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INTERNATIONAL SHIPMENTS

Exports: Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. From the United States.*

Importe. Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA ो गढ़। " Hazardous Wasis Manifest. Any person functioning as the U.S. Importer, as defined in Part 111 must crimotete the manifest as required in R299.9310 *

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_ MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates manifest) remove the white and good banded copies and give the remainder of the manifest copies to the transporter. Send the wrise copy to MDEC no later than the tenth day of the month following the shipment. For shipments of wasted being transported to a designated facility outede of Michigan when willout-of-state manifest is used lines to the MDEQ a photocopy of the manifest when the shipment is placed into transputation and mail a prictocopy of the second generator manifest copy, when received

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility signs and dates the manifest, the carrany banded copy will be returned to you. If more than one transporter is used, the manifest is to be cooled and supplied to the previous transporter actnowledging the receipt of the shipment by the next transporter. The covery banded copy stays with the manifest until the shipment reaches the designated facility.

DESIGNATED FACILITY: Upon eighing and dating the manifest as received, give the canary barided copy to the generator. Mall the plink banned copy to the generator. Mall the plink banned copy to the MODECH for what the first day of the cricinth following receipt of shipment.

ADDRESS ALL MOEQ MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7534

MOR 000304

The outputers may be mention this present on the transfer is estimated to average 31 manufes for generators, 16 minutes for transporters and 16 minutes for transporters and 6 minutes for transporters and 6 minutes for transporters and 6 minutes for transporters and 6 minutes and appearance. The burder associated with reading the regulations are estimated at 1 hour and 15 minutes and appearance the total fine, effort, or financial resources expected by persons to generate, maintain, retain, or disclose or provide information to or for a Faderal agency.

An approx nay not conduct of sponsor, and a possor is not required to respond to, a collection of information unless it deplays a currently valid OMB control number. The OMB numbers for EPA's regulations are instead in 40 CFR Part. S and 48 CFR Chapter 15. Send comments regarding these burden statements or any other assect of this collection, including suggessors for reducing the burden, including through use of automated collection hechniques to the Director, OPPE Regulatory Information Division, U.S. Environmental Protection Agency (2.37), 401 M St. S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Attention, Disk Officer for EPA, 725 17th Street, N.W., Washington, D.C. 20503, Include the OMB control number in any correspondence.



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-806-272-4706 OR OUT OF STATE AT 817-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-806-424-8662 24 MOURS PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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1	15. Special Handling Instructions and Add	itional Information	N. Vitalia alterial (1922)	e Broken, 25 dag 2 44	tali ali latina al 18 di			
Emergency Contact # (638)754-2300								
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l	16. GENERATOR'S CERTIFICATION: I hereby declar classified, packed, marked, and labeled, and are in all	I respects in proper condition for transport by	highway according to a	ely described applicable interi	national and natio	or shipping name and are onel government regulations.		
1	If I am a large quantity generator, I certify the	t I have a program in place to reduce to selected the program in place to reduce t	the volume and toxicit etment storage, or d	y of waste go	enerated to we tiv available to	me which minimizes the		
1	present and future threat to human health and generation and select the best waste management m	I the environment; OR; If I am a small	quantity generator, I	have made a	good faith eff	ort to minimize my waste Date		
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١	20. Facility Owner or Operator: Certification	of receipt of hazardous materials	covered by this ma	nifest exce	pt as noted in			
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Fedoral and State regulations provide for additional requirements, and included in those include bons, regarding the use and management of this form (40CFR, 49Cf) $c = e^{-t/4}$. First this

Additional information such as "Trajected, Logd Probadures", state dissipation (denotice) in numbers, mainfest forms, etc., can be obtained by contacting the Michigan Department of the roll of the United Michigan Department of the roll of the United Michigan Department of the roll of the Michigan Department of the roll of the Michigan Department of the roll of the Michigan Department of the roll of the roll of the Research of contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not out or ed by MDEO.

Complete all flams on the manifest. Enter "NA" if any item does not apply. Leave from that may be needed later blank, such as second transporter

from 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number is state assigned number must be obtained and used. The generator of the waste must enter a unique five a git manifest document number (0 a COOO1).

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Item 3. Enter the name of the generator and the mailing address to which the maintest should be malier I the address of the site at which the waste was placed into transmittand the determination in a making god ass record the site address in from J.

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Rem 5. Enter the company states of the light his policy with we transport the waste

Item & Enter the transporter v.47S. EPA: tweive digit identification number. For thair 121 main lested Shipments where a transporter is as not have a U.S. EPA and under a state has great and larger

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Rem 8. Enter the second transporter's 113 FRA Na New digit the Pfunt in integral of the Park in fested shipments where a natispoint in the contribution of U.S. CPA, assigned highlight is space and in the

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from \$. Enter the company name and site address of the tackity designated to receive the waste listed on this manifest.

from 10. Enter the U.S. EPA swelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

Rem 11. Enser an X in the HM box, if the waste is a hazardous material regulated by U.S. DOT. (See 49. A Political Cities the limb levil Cli (2015 shukking wearborn including Prope Shipping Nent i Frazand Deep or Cities on 12 Northern Shirt Ay leave grown for each weatered senting in 49 CFA 172 An it should be with the library shirt in the weath industries of the global records in use with Pracard. Fire arrives out with the fifting water waster for other cappropriate shipting description to the waster

flam 12. Enter the number of consumers for each waste and the appropriate abbreviations is ted below for the type of container. Each container type requires separate entry.

DM = Metal grums, barrels, kegs

DW = Wooden drum, or free, keeps

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NOTE: MORGINGED Considerations Princed Pest provines guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

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Item 3 - M. May be required by other mates.

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INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure from the United States.*

Importe: Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA. Uniform Huzardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, must complete the manifest as required in R239 9310 *

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MANUFEST DISTRIBUTION

GENERATOR: Upon piecing the waste into transportation (first transporter signs and dates manife remove the write and gold banded copies and give the remender of the manifest copies to the transporter. Send the white copy to MDEQ no later than the tenth day of the month following the shipment. For shipments of wastes being transported to a designated facility outside of Michigan when an out-of-state receives its used, mail to the MICEQ a photocopy of the mandest when the shipment is placed into transcontains and may a photocopy of the second generator mentest cupy, when received

TRANSPORTER: Upon delivery to the designated (or elemental) facility and that facility signs and dales. the manifest, the canary banded copy will be returned to you. If more than one transporter is used, that nian first all to be use an and supposed to the previous transporter acknowledging the recept of the shipwith the nour benefit of the century ban fed popy atays with the monitest until the shipprent reaches. the designated factors

DESIGNATED FACILITY: Upon signing and dating the manifest as received, give the canary banded the the barroked using to the generator. Miss the pick barried copy to the er an er dec Mille Gindliver, than the first way of the crond tollowing receipt of shipment.

AUDRESS ALL MOED MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LANSING MI 48909-7538

MOR 000306

The principle from the salection of information is estimated to average 31 minutes for generators, 16 minutes for transporters, and 16 minutes for preamment, storage, and esposal facilities. The incoming temperature of the properties and 5 minutes for present, storage and depoted facilities. The burden associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation associated with reading the regulation and the following the regulation and the following the regulation associated with reading the regulation and the following the regulation and the following the regulation as a few or

Assignment of the OMB control number of the OMB numbers for EPA's regulations are issued in 40 CPFR Pan a and 46 CPFR Chapter 15. Send control to providing these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including through use of automated collection feelingues to the Director, OPPE Regulatory, Information Division, U.S. Environmental Protection Agency (2.37), 401 M St. S.W., Washington, D.C., 20460 and to the Office of Information and Regulatory Afters, Office of Management and Budget. Son. (1999) Officer for EPA, 725 17th Street, N.W., Washington, D.C. 20503. Include the CA/B control number in any consepondence.



Generator Name_

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Generator USEPA ID No.

Please check the facility you are shipping to:

Michigan Disposal Wasto
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

The Morey Corp.

□ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

ILG000060910

MOR 000307

Generator Add	lrcss100 Morey D	r., Wood	dridge, IL	60517	
State Manifest	No. MJ PUIT	1770	Manife	st Doc. No. 1	7770
 In Column In Column waste will be In Column In Column 	1 identify all USEPA hazard 2, choose the appropriate tro 3, enter the appropriate Su be treated using one of the all 4, circle the letter of the app 5, for F001-F005, F039, D00 ce Guide—LDR/UHC Constit	ous waste co eatability gro beategory, is ernative tre ropriate par 1-D043, Deb	oup: Non-Wastewate f applicable, and al atment technologies agraph from Pages ris & Contaminates	ter (NWW) or Waster so enter "Contamina s provided by 268.49(1-2 of this form. I Soil wastes, enter th	ted Soil" or "Debris" if the e) (soil) or 268.45 (debris). e Reference Number(s) from the
Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D001	Ø NWW	High TOC	B C D E F G H I J K L M S	
11.B		□ www □ ww	· ·	ABCDEF GHIJKL MS	
11.C		□ www		A B C D E F G II I J K L M S	
11.D		O WWW		A B C D E F G H I J K L M S	

HOW MUST THE WASTE BE MANAGED?

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my

For S, circle the appropriate response for the 3 italicized options:

knowledge and information

Generator Signature

Printed Name

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A (CIRCLE ONE) (CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE, FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY, HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- H. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- ITHIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K. THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT

 TO'268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D. OF THIS PART IS BASED IN PART OR IN

 WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have

 personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification
 and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater

 organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part

 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have
 been unable to detect that nonwastewater; organic constituents despite having used best good faith efforts to analyze for such constituents. I
 am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- IL THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 60 CER 268.40 to remove the hazardous characteristics. I am aware that there are significant penaltics for submitting a false certification including the possibility of line and imprisonment.
- THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOYE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.



ALL SPILLS MUST BE REPORTED TO THE MICHIDAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIDAN AT 1-800-262-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8602 24 HOURS PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO	NOT	WRITE	IN	THIS	SPACE

ATT. DIS. REJ.

Hequired under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

PR. □

WASTE MANIFEST II GOODEGETIN DOCUMENT NO. 1692N 3. Generator's Name and Mailing Address MUNEY CURP. 196 HOREY DR., NUCLERIDGE, IL. 60517 (636) 754-2386	State Mar MIL 24 State Gran	is not required	n the shaded areas urred by Federal nent Number
MOREY CORP. 190 HOREY DR., MUCORIDGE, IL 60517 (630) 754-2300			
(634) 754-2584	SIGNATOR		A CONTRACTOR OF THE PARTY OF TH
4. Generator's Phone () 5. Transporter 1 Company Name 6. US EPA ID Number 2018		$I \subseteq I$	1
ENVIRONMENTAL MASTE SERVICES 11.R000007047			但的理論可能
OZINGA TRANSPORTATION SYSTEMS ILD984775649	refreporte	Professor Particles	THE THE PARTY OF
MICHIGAN RECOVERY SYSTEMS, INC MID868975844	3 7 - 6 0	7000) 2000)	GPE LE MONT
		3 14	4) 386-3190
HM ID NUMBER). No. Typ	To	tal Uni	No
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	40000 C	Ava A Sec.	
15. Special Handling Instructions and Additional Information Emergency Contact # (63節) 754-23個			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and socurately declarated, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applic	escribed abo	ove by proper	shipping name and are if government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of to be economically practicable and that I have selected the practicable method of treatment, storage, or dispos present and future threat to human health and the environment; OR; If I am a small quantity generator, I have generation and select the best waste management method that is available to me and that I can afford.	waste gener al currently	rated to the di R ot eideliava	egree I have determined ne which minimizes the
Printed/Typed Name Signature	21		Month Day Year
			· Date
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature 18. Transporter 2 Acknowledgement of Receipt of Materials			Month Day Year
18. Transporter '2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature			Month Day Year
19. Discrepancy Indication Space			
7	MOR 00	00309	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manife item 19.	st except a	as noted in	Date
Printed/Typed Name Signature			Month Day Year

Anglight of the Control of the transfer that grant the control of the Control of the дивентави оп разве развера и в претиго прево торий и без цео и разве доже пола. Егирго в тория отно-A4-146.

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Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 4905). Pert 111, Part 12%

Additional information such as "Rejected Load Procedures", state awargined identification with enfest forms, etc., can be obtained by contacting the Michigan Department of Linvinn ment's (Linuity (NiChia)) nagement Division's (WMD) Interni et Home Page at: http://www.sau arate.rn. us embolo contact the Manifest Unit directly. at (517) 373-1217. Continuation should are not excelled by MDFQ.

Complete all items on the manifest. Enter "N/A" if any item does not upoly. Leave items that may be nseded later blank, such as second transporter.

from 1. Enter the generators U.S. EPA twelve digit identification number. For Part 121 manifested ehipments where a generator does not have a U.S. EPA assigned number: a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number iu a. C0001).

Nem 2. Page number 1 of 1 should be recorded unless a continuation sheet wased in which base the total number of pages, counting the initial manifest page, should be shown

Nem 3. Enter the name of the generator and the mailing address to when the manifest should be mailed. If the address of the site at which the waste was placed into transportation to the anti-line that exit is mark to address record the site address in Item J.

from 4. Enter a telephone is upder fine is signated how it where an authorizon against it the generator can be reached in the event of all emergin or an afor a purpose it call rew include

NOTE: The 24 hour exterprishs after significant resulted to a travers of interestion of the paper into the different from the generator is more number.

Rem 5. Enter the company ruln's or ne his transportant at oliving contribution waste.

Hom S. Errer the transporter's U.S. EPA healve dropt identification number. For Part 121 income for **Shipments where a transfer**ed their noting as $k \to 2$ of k assignation at a finite last $k \to 2$ te used

Nam 7. If the tig is second the stry day as the the processing prime

Rem 8. Enter the second to sporte is 0.7 ETA while digit is biffered since point of the confested shipments where a removing the continue will indicate assignation of the further is to be ased.

NOTE: If more then two newspotent on loves in the previous first have a single Then number isset a time only the second of sheets must be appropriately cumplance in seet entrety and properly distributed. Continuation extents in as not be used to list additional waste streams.

from 8. Enter the company name and site address of the facinty designated to receive the waste listed on

from 10. Error the U.S. EPA twelve tiggs identification number for the designated facility described in Item. 9. For Part 121 man-fested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

en 11. Find 6 - Yours. 1861 box if the waster is a hiszardous ituateral regulated by all SI DOY foce 49. COPY 122, In the mean world of the promise promise promoting from the promise promoting from the about the scale for the control of the scale for the control of the contro miners, news controlling that like any preparation with the second process of the second

liters 12. Enter the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry.

DM = Metal drums, barre 3, keeps

DVY - WOODER STUTE DIEVER, HEGS

DE y Etherbreits of plasmo drums, bisitely, kegs.

L. Dunip Truck

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enso Anii - C.

Clinius Annual Boxes, cardinas, casses, ferdudinande objects). DW a termidan boxes, carson means. DV — Floor or prost propress in the simulose.

SA = bunga, siden, puper, p ast c bugs

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dem 16, if approache, print the name of the person accepting the waste on behalf of the second trans-That election meet abknowledge acceptance of the waste described on the manifest by signific A THE STATE OF THE CONTRACT OF

enable. A light from zero representative of the designated (2) alternate) faculty injust making is space any disprepancy in the waster shipment

Item 20. Print the name of the person accepting the weste on behalf of the designated family. That person must approximate acceptance of the weste described on the manifest by signing and entering one date of recogn

NOTE: MDLQ "Capitatio coad orecentures" provides guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

ftem A. A preswrited State man fost document number.

stem 5 - In. May be required by other states

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Universal Waste	U	

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in tiers 15. The primary exporter must identify the point of departure, from the United States.*

Imports. Shoments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA. • continuazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, tight some ete the manifest as required in R299 9310 *

conscients to registrony reasons growers clear device a conjustific growers to 0.3 Costons when in 2.3 Costons when it is a very only the warral across 0.5 persons. Note the following warral cannot incurrent Parise name un

MANIFEST DISTRIBUTION

GENERATOR: Upon paging the waste into transportation (first transporter signs and dates manufest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Send the white copy to MDEQ no later then the tenth day of the month following the shipment. For shipments of wastes being transported to a designated facility outside of Michigan when an out-of-state in andest is used, mail to the MCEQ a photocopy of the manifest when the shipment is placed into transportures, and mail a photocopy of the second generator manifest copy, when received

TRANSPORTER: (Igon delivery to the designated (or alternate) facility and that facility signs and dates the municipal the canary bundled copy will be returned to you. If more than one transporter is used, the The control of the copied and a signature the province transporter authorities from the copied of the step of the the designated facility

DESIGNATED FACILITY: Thus signing and dating the manifest as received, give the canary banded to give the canary banded to give the appropriate. We'll the pink bended copy to the NOUSE is later than the 10th pay of the month following recourt of element.

ADDRESS ALL MOED MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION ICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

MOR 000310

ngiftly is portry by the Center's Newton of information is estimated to average \$1 minutes for generating to minutes for transcorpus, and 10 minutes for transcer, storage and discussifications. The record keeping burden per response for this crise, sun of intermusion is estimated to execute if increasing the response for generators, 6 minutes for paracosters, and 6 minutes for section, storage and disposal facilities. The burder, associated with response for paracosters expended by persons to generate, mention, retain, or dispose or provide intermetion to or for a Federal agency.

religy not sports and a sponsor, and its person is not required to reaconation and instance of information at information are instead in 40 CFR Part Salu 48 DFR Chapter 15. Send comments registring these burden statements or any other aspect of the burden, including this burden, including the burden, including through use of automated collection techniques to the Director, OPPE Regulatory Information Division, U.S. Environmental Protection Agency (2.37), 401 M.S.L.S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs, Office of Menagement and Budget.

Attention. Divisir Officer for EPA, 725 17th Senset, N.W., Washington, D.C. 20509, Include the DMB control number in any correspondence.

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name	The Morey Corp.	Generator USEPA ID No. ILG000060910
Generator Address	100 Morey Dr., Woodridge,	IL 60517
State Manifest No	mi 8011910	Manifest Doc. No. [1916]

INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A ·	D001	Ø www	High TOC	BCDEF GHIJKL MS	
11.B		O WWW		A B C D E F G H I J K L M S	
11.C		□ www		ABCDEF GHIJKL MS	
11.D		□ www		ABCDEF GHIJKL MS	·

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my
knowledge and information.

Generator Signature FRE	O PFEIFFER	Fred Blatta Title	SAFETY MLR.	
Printed Name FRED P	FEIFFER	Date	1.22-01	

HOW MUST THE WASTE BE MANAGED?

MOR 000311

For S, circle the appropriate response for the 3 italicized options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penaltics for submitting a false certification, includin; the possibility of fine and imprisonment.

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS, I codify under penalty of law that I hav personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE, FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY, HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- IL THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- 1. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOYE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS PESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K. THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- L. THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOVE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.20 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of line and imprisonment.

STATE OF ILLINOIS

			State Form	21 0 02 001	ILU	32-0610						
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1	3. Generator's Name and Mailing Address Empty Building	Locat	tion If Differ	rent			A. III	inois Mani	1est Do	cument	Number FEE PAID IF APPLIC	CARLI
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4	5. *24 HOUR EMERGENCY AND SPILL ASSISTANC 5. Transporter 1 Company Name	E NUMBERS	5.000 40	US EPA ID N	lumbar		C. T	ransporter	8404	17£		
•	Hazohem Environmental	Ĭ		ILD9847				Number			58-1910	
7	7. Transporter 2 Company Name	8.		US EPA ID N	Number			ransporter		-	- 10 TO	
				110 504 10 1		_		Number ansporter	s Phon		``	
	3. Designated Facility Name and Site Address Pollution Control Industries of Indiana	10,		US EPA ID N	Number		G. Fa	acility's IL				
4	1343 Kennedy Avenue	_			- 400 4	_		Number	<u> </u>	10.20	NA I	
	East Chicago Indiana 46312			INDOOO	646943	3	H. Fa	acility's Ph	one (19-49	7-3901	
1	1. US DOT Description (Including Proper Shipping N	lame, Hazard	i Class, and	d ID Number)		12. Conta No.	Type	13 Tota Quan	al l	14. Unit Wt/Vol	l. Waste N	lo.
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3	5. Special Handling Instructions and Additional Information 87-1021 Senerator Phone Certificate of Destruction Required 6. GENERATOR'S CERTIFICATION: I hereby declare the proper shipping name and are classified, packed, man according to applicable international and national governit I am a large quantity generator, I certify that I have be economically practicable and that I have selected if and future threat to human health and the environment	hat the content ked, and label emment regule a program the practicable at; OR, it I am	ied, and are stions. I place to red I method of it I a small qua	in all respects duce the volun treatment, stor intity generator	in prope	r condition axicity of w	descrit for tran	ned above insport by h	by ighway the dec	S	ave determined	l to
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The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and nonhazardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. Potentially Infectious Medical Waste (PIMW) requires a PIMW manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of Copy I should be used.

INSTRUCTIONS TO GENERATORS (Please type)

- Enter generator's USEPA twelve digit identification.number* and the unique five digit document number assigned to this Manifest (e.g. 00001) by the generator.
- Enter total number of pages comprising this Manifest.
- Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.
- B. Enter the generator's Phinois EFA ten digit identification
- 5, 6. For the first transporter who will transport the waste, enter the
- C. D. company name. USEPA ID number*, Illinois EPA four digit Special Waste Hadling (55) 4) Permit number or the Uniform Program LD number issued by the participating state, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- 7. 8. If applicable enter the information requested for the second
- E, F. transporter who will transport the waste
- 9, 10, For the facility designated to receive the waste, enter company
- G. H. name, address, USEPA ID Number*. Illinois EPA ten digit identification number, and telephone number where an authorized agent of the receiving facility may be reached.
- Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT".

* REQUIRED ONLY FOR HAZARDOUS WASTE

Enter the number of containers for each waste and the appropriate abbreviations for the type of container:

CM = Metal boxes or roll offs DM = Metal drums

CW = Wooden boxes

DW = Wooden drums

CF = Fiberboard or plastic bags DF = Fiberboard or plastic drums

BA = Burlap, cloth, paper or plastic bags.

CY = Cylinders

TT = Tank Trucks

DT = Dump tracks

TP = Tanks portable

TC = Tank cars

- 13. Enter the total quantity of each waste.
- Enter unit of measure from list below:

Con Callons

P = Pounds

T = Tons

Y = Cubic Yards

f . There

K = Kilograms

N = Cubic meters

M. Metric four

Enter the FPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered - additional numbers should be listed in Section J.

- J. K. If needed, enter additional description or information/ instructions for the material listed in Item 11.
- If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments generators must enter the point of departure (City and State) for shipments destined for treatment, storage, or disposal outside the jurisdiction of the United States in this space.
- The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be fined out and the appropriate mode trail, water, or any inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6. MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT IF WASTE IS RCRA HAZARDOUS OR PCB WASTE.

INSTRUCTIONS TO TRANSPORTER: 17, 18. The person accepting the waste on behalf of the transporter must acknowledge. acceptance of the waste described on the Manifest by signing and entering the date of receipt. Upon delivery of waste to facility, retain Copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20. Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt. RETAIN COPY 3, SEND COPY 1 TO THE GENERATOR, AND SEND COPY 2 TO ILLINOIS EPA WITHIN 30 DAYS OF THE DELIVERY IF WASTE IS RCRA HAZARDOUS OR PCB WASTE.

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters. and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate. including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M. Street SW., Washington, D.C. 20480; and the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.





ALL SPILLS MUST BE REPONTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-2924-706 OR OUT OF STATE AT 517-378-7660 AND THE NATIONAL RESPONSE

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994 as amended

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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11	10	8. GENERATOR'S CERTIFICATION: I hereby declare	that the contents of th	is consignment are	fully and accu	rately des	cribed above by	proper st	nipping name and are
11		classified, packed, marked, and labeled, and are in all n	espects in proper conditions. It have a program in pi	n for transport by hig ace to reduce the	hway according ' volume and tox	ic applicati letty of w	e international and aste generated to	the degr	povernment regulations. ree I have determined
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Federal and State regulations provide for additional requirements, not included to those instructions, regarding the use and management of this form (400FR, 440FR, 580, 19). Part 2019

Additional information such as "Rejected Load Procedures", state instruments of the includers in an fest forms, etc., can be obtained by contacting the Michigan Department of the including the Waste Management Division's (WMD) Internet Home Page at: http://www.ices.artm.moustwent.or.you may contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MOEG

Complete all items on the manifest. Enter "NA" if any item does not apply. Linave items that may be needed later blank, such as second transporter.

Rem 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number: a viate assigned number must be obtained and used. The generator of the waste must enter a unique final digit manifest document number (e g 00001).

item 2. Page number 1 of 1 should be recorded unless a continuation sheaf is used fin which base the total number of pages, counting the initial manifest page, should be shown

ttem 1. Enter the name of the generator and the mailing address to whom his manifest should be mailed If the address of the site at which the waste was placed into transcription in off want from the multing address record the site appress in Item J.

Rem 4. Enter a talephone number S_{ij} is ting allow lossly where on a territoring flag is to the generator can be reached in the event of an emergically ancion S_{ij} in a n=1, n+2.

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Rem 5. Enter the company to the of the high transporter who will cransport the ways

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Rem 9. Enter the company name and site address of the faculty designated to receive the waste keled on

this manifest.

Next 10, Enter the U.S. EPA tweeter digit identification information for the designated facility described in Item. 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned

Per Part 121 manifested shipments where a designation interpretation of the manifested shipments where a designation interpretation of the manifested shipments is a bazardous material regulated by U.S. COT (See 49 C.Fs. 17.1 in the interpretation of the waste is a bazardous material regulated by U.S. COT (See 49 C.Fs. 17.1 in the interpretation of the party description of the properties of the properties of the properties of the properties of the party description of

Rein 12. Enter the compart of contactors for each waste and the appropriate abbreviations listed below for the type of corrainer. Each container type requires separate entry.

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NOTE: MOSO "Prejected Load Procedures" provides guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

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INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the wasta leaves the Underl States in trem 15. The primary exporter must identify the point of departure from the United States."

imports. Shipmants of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA Uniform Hazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, 51 complete the manifest as required in P299 9310.*

The winders of leaders to leave districtions was always a cuty of the classified by 30 feeting when the court of the classified was understanding the court of the same was a market becomes

GENERATOR: Upon placing the waste and transportation (first transporter signs and dates manifest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Seizo the white copy to VOEQ no later than the tenth day of the month following the ship nent. For an pments of waster being transported to a designated facility outside of Michigan when an out-of-state air fest is used mail to the NOEQ a photocopy of the manifest when the chipment is placed into transportation and mail a photosis of the second generator manifest copy, when received

TRANSPORTER: Upon delivery to the designated for alternates facility and that facility signs and deserthe inunifiest, the canary banded copy will be returned to you. It more than one transporter is used, the in analysis to be poperal and supposed to the previous transporter acknowledging the receipt of the thiomemory memora transporter. The canary bandes copy stays with trainantities, until the of foreign reaches if a dee of class table

DESIGNATED FACILITY: Upon eigning and dating the manifest as received, give the canary banded namenoner. Return the blue handed convito the generator. Mail the pink banded copy to the Nillage the larger of or this 10th day of the month following reduct of shipment

ADDRESS ALL MORO MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LANSING MI 48909-7538

Investment reprotes paragraphic in this pole from it inturnation, also instituted age 31 reputes for generators, 18 minutes for transporters, and 18 minutes for treatment, storage, and disposal facilities. The record keeping burden or The solith is must bright this control to the comment to the control to the for previous is minuted for transporters and 0 minutes for measurement storage and disposal residence in the bright residence associated with residence expended by persons to generate maintain, retain or dispose or provide information to or for a Federia agency.

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all spills must be reported to the michigan pollution emergency alerting system, in Michigan at 1-806-272-4708 or out of state at 817-373-7860 and the National Response Center at 1-808-424-888 24 hours per day.

TE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994, as

Failure to file may subject you to criminal and/or civil penalties under Section - £ 324.11151 or 324.12116 MCL.

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Federal and State regulations provide for additional requirements, not included in these livatrue bone, regarding the use affid frienage@fentrof this form (40CFR, 49CFR, Part 111, Part 121)

Additional information such as "Rejected Load Procedures", state 249 golds (46 - noth - inches) inland test forms, etc., can be obtained by contacting the Michigan Department of a contact of a contact the MCEC. Waste Management Devision's (WMD) Internet Home Page at, http://www.deg.state.co.ps.kmid or you may contact the Manifest Unit directly at (\$17) 373-1217. Continuation sheets are not supplied by MDEG

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

from 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested ship ments where a generator does not have a U.S. EPA assigned number, a state assigned number must be ribitained and used. The generator of the waste must enter a unique five digit manifest document number (8-a, 000001).

Nom 2. Page number 1 of 1 should be recorded unless a continuation shadt is used, in which case the total rumber of pages, counting the initial manifest page, should be shown.

from 3. Enter the name of the generator and the mailing address to worth he mailtest should be marled If the address of the site at which the waste was placed into transportation is different from the making address record the site address in from J.

Rem 4. Enter a talephone subsection to the property of an extra above an authorized agent. If the generator can be reached in the event of \mathbf{a}_{t} or large $(\mathbf{y}_{t}|\mathbf{a}_{t})^{2}$ and $(\mathbf{y}_{t}|\mathbf{a}_{t})^{2}$ and $(\mathbf{y}_{t}|\mathbf{a}_{t})^{2}$ and $(\mathbf{y}_{t}|\mathbf{a}_{t})^{2}$ and $(\mathbf{y}_{t}|\mathbf{a}_{t})^{2}$ and $(\mathbf{y}_{t}|\mathbf{a}_{t})^{2}$

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Rem 8. Enter the company name and site address of the facility designated to receive the waste listed on the manifest

Nem 10, Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

ttem 11. Finance, X in the HPA box of the waste is a hazarous material regulated by U.S. IXXII (See 43 The many of the control of the control of the manufacture of the control of the c

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T = Cargo tenns (tenk trucks)

IC : Tank cars

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ust a training resource community rowalts;

CW= Mooden bores, catero, cases

F. Fiber or plastic boxing in the all cases

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them 33. "Chiler the total out, noty of waste described on each line. Do not use depintate or part ons

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M - Marris tona (1000 kg)

N = Cubic meters

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reached the line of the second print is necessary, sign and date the certification stalement

Have 10, File in the carried in control accepting the waste on behalf of the hist transcorter. That bered must acknowledge appearance of the waste described on the manifest by signing and entering the dar-

Item 18. If applicable, print the name of the person according the waste on behalf of the sec. $n \approx x^2$ skille. That person must advisowledge acceptance of the waste described on the manifest by study of Hillon by bill date 6 beneat

Imprised recressionative of the designated in a terriace; facility must note in this space any distracancy in the waste shipment

from 20. Print the number of the berson accepting the waste on behalf of the designated facility. That person must acknowledge acceptance of the waste described on the manifest by eigning and entering the date of receipt

NOTE: MOEO "Rejected Load Procedures" provides guidence for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

ttem A. A preprinted State manifest document number,

Item B - H. May Le received by other states

Them is a control of which is server, the calleron also waste numbers round in R299 3010 through the 25 &15 mount of the 25 cm 26 Subjects 6 and 0. If more than the waste starter is returned to improportions, where the works represent advances in them of the sending the most source rise waste number the following heracoty must be used above waste (notice), if and source is used. If it is controlled the contr and federally required wastes. For East 10's waste which are not heremous southerd teacherage numbered pode asted below-

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Emergency Response Cleanup Household Generated Recycled Precious Metals Recycled, Reclaimed, Used or Reused Universal Waste

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. From the United States.*

Importe: Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA The rindary sous Waste Manifest. Any person functioning as the U.S. importer, as defined in Part 111, Tull 15, solate the manifest as required in Page 9310.*

For prime, if here this wash all others must do yet a upry of the modeling to $1.9\,$ Colstons when courts on country the waste across $0.5\,$ borders. Note the foreign waste manifest document unswinding.

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates munitiest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Send the white copy to MOEQ no later than the tenth day of the month following the snipment. For shipments of wastes being transported to a designated facility outside of Michigan when an out-of-state maintest is used imail to the MOEQ a photocopy of the menifest when the shipment is placed into transpuration and mail a phytocopy of the second generator marstest copy, when received

TRANSPORTER: Upon delivery to the designated (or atternate) facility, and that facility signs and dates the manifest, the canary bended copy will be returned to you. If more than one transporter is used, the manifast is to be popped and supplied to the provious transporter acknowledging the receipt of the shiptier toy meneral nar sporter. The canary banded copy stays with the manifest until the ship nont reaches the besignated facility

DESIGNATED FACILITY: Upon signing and dating the manifest as received give the canary banded so, yird the trait sporter. Return the blue banded copy to the generator. Mail the pink banded copy to the MDEQ no later than the 10th day of the month following receipt of snipment.

ADDRESS ALL MOED MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48906-7538

The public reprocess burden for this collection of information is estimated to average 31 minutes for generators, 16 minutes for transporters, and 16 minutes for treatment, storage and disposal facilities. The record keeping burden per-securities for this collection of information is estimated to average 6 minutes for generators, 6 minutes for minutes for treatment, storage and disposal traceles. The burden associated with reading the regulations is estimated at 1 hour and 15 minutes envirally. Burden means the total time, effort, or financial resources expanded by persons to generate, methods, retein, or disclose or provide information to or for a Federal agency.

An agency may not construct or appoint or and a person is not required to respond to, a collection of information unless it displays a currently valid CMB control number. The CMB numbers for EPA's regulations are listed in 40 CFR Part 9 and 48 CFR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including through use of automated collection sectioniques to the Director, CPPE Regulatory Information Division, U.S. Environmental Protection Agency (2.37), 401 M St., S.W., Washington, D.C., 20460 and to the Office of Information and Regulatory Affairs, Office of Menagement and Budget, Abendoor, Dec. 2050. Include the OMB control number in any correspondence.



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

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amended.

Fallure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Rev. 5/98

and Part 121 of Act 451, 1994, as

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Federal and State regulations provide for additional requirements, not included in those instructions, regarding the use and management of this form (40CFR, 4xCFR, First 51). Furt 121:

Additional information such as "Rejected Load Procedures", state assigned contribution in to boils or ex-fest forms, etc., can be obtained by contacting the Michigan Department of Linear Indian (such years). Waste Management Division's (WMD) Internet Home Page at. http://www.ceu.stnia.mr.us.wmJ.cx contact the Manifest Unit directly at (517) 373-1217. Continuation shows are an assumed by MDEQ.

Complete all items on the manifest. Error "NA" if any lorn does not apply 1 save items that may be needed later blank, such as second transporter.

from 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested stripments where a generator does not have a U.S. EPA assigned number is state assigned number must be obtained and used. The generator of the waste must enter a unique " to digit manifes" document number (e.g. 00001).

Rem 2. Page purpoer tipf 1 should be recorded unless a continuebon sheet is used in which case the total number of pages, counting the initial manifest page, should be shown

from S. Enter the name of the generator and the mailing address to which have been should be mailed If the address of the site at which the waste was placed into transportation, a gifty entition the macking address record the site address in Item J

Rem 4. Enter a felephone invitibulity of a long area (1997) will the level onzient agent, dittin generator part be reached in the event of an emerging y undur u port uncolonic hersted for

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from 9. Enter the company name and site address of the facility designated to receive the waste listed on

them 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item B For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

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Nam 12. Enter the number of containers for each waste and the appropriate abbreviations issied below for the type of container. Each container type requires separate entry

DM = Moral drums, barrets, kegs

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Rem 17. Florine has most they electricate pto gittle shate under a form a first transporter. That person must approximately acceptured of the waste described on the maintest by signing and entering the sale-

from 18. If applicable infinitible name of the person accepting the waste on behalf of the second man some. That conson hust othnow educationed of the waste described on the manifest by signing of the contract of the contract of the contract of

from 19. As wire overs, socies condition of the consignation, or an expecting foullity must note in this space any discretarios in the waste shipment

Rem 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknowledge acceptance of the waste described on the manifest by eigning and entering the date of receipt

NCTE: MISEU "Rejected Load Procedures" provides guidance for partial or total load, rejectoris

Only the following information in the shaded area is a State of Michigan requirement:

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iten. B. H. Way be required by other states.

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in legitivinius and "Vality Generalis" Emergency Response Cleanup Household Generated Recycled Precious Metals Recycled, Reclaimed, Used or Reused Universal Waste

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. from the United States,*

imports. Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA form Hazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, must conclete the manifest as required in P299 3310 *

Councident of recorded water programmer with bear all ago, in the microfest to 1. 3. Outland likely principal insplicting the mater admiss to 5 pointers. Note this foreign waste microfest discurses: faul das Jiefalten

MAMFEST DISTRIBUTION

GENERATOR: Upon placing the wieste into transportation (first transporter signs and dates manifest) remove the white and gold banded copies and give the remainder of the manifest copies to the trans-porter. Send the white copy to MDEQ no later than the tenth day of the month following the shipment. For stripments of wastes being transported to a designated facility outside of Michigan when an out-of-state manifest is used, mail to the MDEQ a photocrary of the manifest when the shipment is placed also transexcusions and mail a photocopy of the second generator mandest copy, when received

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility signs and dates die manifest, the canary besided copy will be returned to you. If more than one transporter is used the n animals to the popular and supplied to the previous transporter admoss adopting the receipt of the shipto a toy the next maneury ten. The hanery bended dopy stays with the manifest until the contatient reaches. the designated faction

DESIGNATED FACILITY: Lipon signing and dating the manifest as received, give the canary banded to the transporter. Return the bue handed may to the generator. Mail the bink bended copy to the MOLO no later than the 10th hay of the month following receips or shipment

ADDRESS ALL MOEQ MANIFEST COPIES TO:

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

The public recording himsen for this collection of information is estimated to average 31 minutes for generators, 16 minutes for transporters, and 16 minutes for seatment, storage and disposal facilities. The record keeping burden per insporters, and 6 minutes for treatment, storage and disposal facilities. The outland associated with reading the regulations is estimated at 1 minutes income and 15 minutes annually. Burden means the total time, effort, or financial resources expended by persons to generate, meintain, or disclose or provise information to or for a Federal agency.

An extension why not contribute or sponsor, and a persons not required to respond to, a collection of information unless it dischays a currently valid OMB currior number. The OMB numbers for EPA's regulations are listed in 40 CFR Part 8 and 50 FFR Industry. 15. Send comments regarding investible for sextenents or any other appeared this collection, including suggestions for reducing the burden, including through use of automated collection received to the Director, OPPE Requirement photometric protection Devision U.S. Environmental Protection Agency (2.37), 401 M ST., 5 W., Washington, D.C., 20460 and to the Office of Information and Requisitory Affairs, Office of Management and Budget. Abertion, Devis Office of Information and Regulatory Affairs, Office of Management and Budget.



LAND DISPOSAL RESTRICTION & CERTIFICATION FORM

Please check the facility you are shipping to: Michigan Disposal Waste Treatment Plant (Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831

The Morey Corp.

Wayne Disposal, Inc. Subtitle C Landfill (Secure Hazardous Waste Landfill) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

ILG000060910

Generator Name	The Morey C	orp.	Genera	tor USEPA ID No	ILG000060910
Generator Address	100 Morey D	r., Wood	lridge, IL	60517	
State Manifest No	m) PUI	7179	Manifes	t Doc. No	179
			Instructions		
• In Column 1 ide	entify <u>all</u> USEPA hazard	lous waste co	des that apply to th	is waste shipment.	
 In Column 2, cl 	loose the appropriate tre	catability gro	up: Non-Wastewat	er (NWW) or Wastev	vater (WW).
waste will be tro	cated using one of the all	ternative trea	tment technologies	provided by 268.49(c	ted Soil" or "Debris" if the e) (soil) or 268.45 (debris).
 In Column 4, cir 	rele the letter of the app	ropriate para	agraph from Pages	1-2 of this form.	
	r F001-F005, F039, D00 uide–LDR/UHC Consti				e Reference Number(s) from the in your waste stream.
Manifest Line Hem	I. USEPA HAZARDOUS WASTE CODE(S)	NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D001	Ø NWW	High TOC	OBCDEF GHIJKL MS	
11.B		O WWW	·	A B C D E F G II I J K L M S	
11.C		□ www		ABCDEF GHIJKL MS	
11.D		O WWW		A B C D E F G II J K L M S	
I hereby certify that knowledge and infor	mation.	ed on this and	d all associated doc	uments is complete an	nd accurate to the best of my

HOW MUST THE WASTE BE MANAGED?

Date

MOR 000321

For S, circle the appropriate response for the 3 italicized options:

PFEIFFER

Generator Signature

Printed Name_FRED

THIS CONTAMINATED SOIL DOES/DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES/DOES NOT EXHIBIT A S. (CIRCLE ONE) (CIRCLE ONE) CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, includin; the possibility of fine and imprisonment.

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to a applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 26 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine an imprisonment.
- D. THIS RESTRICTED WASTE, FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY. HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- H. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- 1. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K. THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- 1. THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penaltics for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOYE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

LOR Page 2 (6/98)



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1	Hequired under authority of Part 111 and Part 121 of Act 451, 1994, as
	amended.
	Failure to file may subject you to criminal and/or civil penalties under Section
	324.11151 or 324.12116 MCL.

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ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-506-292-4706 OR OUT OF STATE AT 817-313-7800 AND THE NATIONAL RESPONSE CENTER AT 1-600-424-8622: BA HOURS PER DAY.

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Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 49CFE, PAC 55), Paul 321).

Accetional information such us "Rejected Load Procedures" state as 10 years (1997) (1997) (1997) fest forms, etc., can be obtained by contacting the Michigan Department of the contents to unity (MDEC). Waste Management Division's (WMD) Internet Home Page at: http://www.sec.end.com/us/wmd.cr.you/may contact the Manifest Unit directly at (\$17) 373-1217. Continuation sheets are not supplied by MDEO

Complete all items on the manifest. Enter "N/A" if any from does not askey. Leave items that may be needed later blank, such as second transporter

Item 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 maintested artipments where a generator does not have a U.S. EPA assigned number a state assigned number thust be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. G0001).

Rem 2. Page number 1 of 1 should be recorded unless a continuation sheet is 4 and in which case the total number of pages, counting the initial manifest page, should be shown

flore 3. Enter the name of the generator and the mailing address to which the night should be mailed If the address of the site at which the waste was placed into transportation in a filterent from the mailing address record the site address in hem J

Item 4. Enter a telephone itember 1 or the rigid row basis, where an delhorized ago it is the generator can be reached in the event of an emerginary and throughout kill for a report with residual

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from 9. Enter the company name and site address of the facility designated to receive the waste listed on this manifest.

from 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

from 11. Ensuring X in the HM box, if the waste is a hazarcous material regulated by U.S. DOT (See 49) ্টি প্রতিষ্ঠান প্রতিষ্ঠান কর্ম বিষয়ে প্রতিষ্ঠান ক্রিকারে প্রতিষ্ঠান ক্রিকার সংস্কৃতি আছিল কর্মানুক্র ছিল্লাল সকলের ক্রেক্সিকার আছিল স্টেটি ক্রিকার ক্রিকার ক্রিকার ক্রিকার বিষয়ে প্রতিষ্ঠান ক্রিকার সভিত্র করে আছিল সাধিক ক্রিকা Amortinia in the Atomic relationer— with the Historian Amortini, the third the Historian Maddie quality.
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Rem 12. Enter the number of containers for each waste and the zoo porture actineviations listed below for the type of container. Each container type requires separate entry,

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Rem 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknowledge acceptance of the weste described on the manifest by signing and entering the date of receipt

NOTE: MOED "Rejected Load Procedures" provides guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

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INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure, from the United States."

imports. Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA in Hairardous Waste Manifest. Any person functioning as the U.S. imponer, as defined in Part 111, n ust do note to the man test as required in R299 9310 *

Thus present if including wester shareless in us, desire a popy of the manifest to U.S. Customs when the remaining the words in product U.S. conditions. There the Gregoria waster manifest discussed for the relationship.

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates mandest) remove the white and gold banded coxxes and give the remander of the manifest copies to the trans-porter. Send the white copy to MDEQ no later than the tenth day of the month following the shipment For snoments of wastes being transported to a designated facility outside of Michigan when an out-of-state transfert is used imail to the MOXLQ a priotocopy of the mariflest when the shipment is placed into transcontation and mail a photocopy of the second generator maintest copy, when received

TRANSPORTER: Upon devivery to the designated (or attenual) facting, and that facility signs and dates the manifest, the canary banded copy will be instumed to you. If more than one transporter is used, the we transect up to earner our representations and execution to previous transportor actionomic aging the receipt of the ship in the receipt of the receipt of the ship in the receipt of the ship in the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of the receipt of th and details and facility

DESIGNATED FACILITY: Upon signing and dating the maintest as received, give the canary banded by to his time to man. Helpin the brue banded doxy to the generator. Mail the plack banded copy to the Interrupts to farecess pre-click country and to year mining or three purposes.

ADDRESS N.L. MOEG MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL GUALITY
PO BOX 30038 LANSING MI 48909-7534

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ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4708 ON OUT OF STATE AT 517-378-7880 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-802 24 HOURS PER DAY.

MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

Satto MI 6/18/01

mequired under authority of Part 111 and Part 121 of Act 451, 1994, as

Failure to file may subject you to criminal and/or civil penalties under Section 324 11151 or 324.12116 MCL. DO NOT WRITE IN THIS SPACE PR. 🗆 DIS. \square REJ.

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4. Generator's Phone ()			Charles	er illiante man			T BEST
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15. Special Handling Instructions and Addi	tional Information						
Exergency Contact # (630)75	4-2300						
16. GENERATOR'S CERTIFICATION: I hereby declare	that the contents of this consignment are	fully and accurat	ely described	above by p	roper ship	ping name	and are
classified, packed, marked, and labeled, and are in all if I am a large quantity generator, I certify that	respects in proper condition for transport by his	ahway according to a	policable inter	mational and	national gov	per tremmer	ulations.
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20. Facility Owner or Operator: Certification tem 19.	of receipt of hazardous materials co-	vered by this ma	nifest exce	pt as noted	d in _		
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Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, $4\pi^{-1}(2) + 6\pi^{-1}(1)$).

And Sonal information sixth **as "Rejected Load Procedures"**, state acts on the first of the conductive of the forms, storp can be obtained by contacting the Michigan Department of First and the conductive by (MCEC), Waste Management Devaluation's (WMD) Internet Home Page at http://www.ueij.sticte.org/sectors/ contact the Manifest Unit directly at (517) 373-1217. Continuation shows are not supplied by MDE G

Complete at items on the manifest. Enter "NA" if any item does not apply. Leave items that may be needed later blank, such as second Tansporter.

from 1. Enter the generator's U.S. EPA twelve digit identification is inflat. For Part 121 manifested ship ments where a generator does not have a U.S. EPA assigned number is state assigned number must be obtained and used. The generator of the waste must enter a unique file styll manifest document number (e.g. (100001).

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Rem 10, Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assumed number is to be used.

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Ren: 12. Criter the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry.

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NOTE: MDEQ: "Medical Load Procedures" provides guidance for partial or total load: rejections

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INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure, from the United States.*

Imports. Shipmonts of hazardous and Fart 121 regulated wastes must be accompanied by a U.S. EPA. Columnitiazardous Waste Manifest. Any person functioning as the t1S, importer, as defined in Part 111, most complete the manifest as required in R299,9310.*

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MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter aigns and dareg manifest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Send the white copy to MDEG no later than the funth day of the month following the shipment. For shipments of wastes being transported to a designated facility duraide of Michigan when an out-of-state manifest is used intall to the MFXQ a photocopy of the manifest when the phipment is placed into transis that be and need a prichocopy of the second generator maintest copy, where second

TRANSPORTER: Libon delivery to the designated (or afternate) tucing and that facility rights and dates the manifest, the canary banded copy will be returned to you, it more than age transporter is used, the manifest is to be popled and supplied to the previous transporter acknowledging the receipt of the shopling the risk and supplied to the previous transporter acknowledging the receipt of the shopling transporter acknowledging the receipt of the shopling transporter acknowledging the receipt of the shopling transporter acknowledging the receipt of the shopling transporter.

DESIGNATED FACILITY: Upon eigning and dating the manifest as received, give the canary banced or you have become including a land desired and the generator. Morths pink banded copy to the NUMB in later than the 16th day of the month following recount of shipment.

AUDRESS ALL INDEQ MARIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7536

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A supporty may not conclude or source and as person in not recurred to respond to, a collection of information, unless a displays a currently yeard CMB control injurior. The CMB rundows for EPA's regulations are listed in 40 CFB Part. s and 45 UPA Chapter is. Send committed to June 50 Send committed to June 50 Send committed to June 50 Send committed to June 50 Send committed to June 50 Send committed to June 50 Send committed to June 50 Send committed to June 50 Send committed to June 50 Send committed to June 50 Management and Budget. Description 50 Send committed to June 50 Send co rbon: Desk Officer to EPA, 725 17th Street, N.W., Wishington, D.C. 20603. Include the OMB control number in any correspondence.

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/9

Please check the facility you are shipping to:

Michigan Disposal Wasto
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

MOR 000327

Generator Name	The Morey C	orp.	General	tor USEPA ID No	ILG000060910
Generator Address_	100 Morey D	r., Wood	lridge, IL	60517	
State Manifest No	mì	Polls	LManifes	t Doc. No/)	7)
			INSTRUCTIONS		
In Column 1 ide	ntify <u>all</u> USEPA hazard	ious waste co	des that apply to th	is waste shipment.	
In Column 2, ch	oose the appropriate tr	catability gro	up: Non-Wastewat	er (NWW) or Waster	vater (WW).
•	• • •		• •		ted Soil" or "Debris" if the c) (soil) or 268.45 (debris).
In Column 4, cir	cle the letter of the app	ropriate para	agraph from Pages	1-2 of this form.	
EQ Resource Gu	ide-LDR/UHC Consti	tuent Table f	or any constituents	subject to treatment	
Manifest Line Item	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D001	Ø NWW	High TOC	B C D E F G H I J K L M S	
11.B		O WWW		A B C D E F G H I J K L M S	
11.C		O WWW		A B C D E F G II I J K L M S	
11.0		□ www	·	ABCDEF GHIJKL MS	
hereby certify that knowledge and infor	mation.	ed on this an	_	Title	nd accurate to the best of my
Printed Name FR	ED PEFER	FR		Date 6.19	5.01

For S, circle the appropriate response for the 3 italicized options:

- With af fine and imprient

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A (CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohimage. I am aware the operation of the prohimage of the proh

HOW MUST THE WASTE BE MANAGED?

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE, FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY, HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- H. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- 1. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOYE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K. THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT

 TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- I. THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOYE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

	E TYPE (Form designed for	ruse on elite (12		State Form LPC 62 8	/81 ILS 8700-22 (R e	32-0610 ev. 6-89)		Form Ann	roved. OMB	No. 205	0.0000	
	UNIFORM HAZARDO		1. Generator's L			Aanifest		Page 1			ne shaded areas	
ł	WASTE MANIFES	T		NA	Dog	ument No.	ł	a 1	required	by Fede	ral law, but is requi	ired by
	3. Generator's Name and Mailing Ad Empty Building 2659 Wisconsin Downers Grove Illinois 4. *24 HOUR EMERGENCY AND S 5. Transporter 1 Company Name	ddress		US EPA I	D Number	· ·	B. G	linois Ma 9 1 ienerato Numbe	anifest Do 237 r's IL	cument 2 4	Number FEE PAID IF APPLICA	ABLE
Ħ	Hazohem Env	ironnent:	al le	86(1.1)	4786238	,					38 1910	
	7. Transporter 2 Company Name		8.	US EPA I	D Number		E. T	ransport Numbe	er's er			
$\ $	9. Designated Facility Name and Sit Preliminary Confered Industri		10. 3113	US EPA I	D Number		G. F	acility's i	er's Phon L	9 () , NA , , ,	
П	4343 Kennedy Avenue			(B)CVO	and state			Numbe		10 20		
$\ $	East Chicago Indiana 46:				0064694			acility's F	Phone (€	13-63	7-3961	
	11. US DOT Description (Including F	Proper Shippir	ng Name, Hazaro	1 Class, and ID Numb	er)	No.	Type	T	13. otal antity	14. Unit Wt/Vol	I. Waste No	
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Н	d.					<u> </u>	-				EPA HW Numb	ber
							:					
	1 Additional Description on Material	. , .	·•				in	item ≇1			Listed Above	
	15 Special Handing Instructions and 312-031-1021 Generator Phone Certificate of Destruction	Required										
	16. GENERATOR'S CERTIFICATION: proper shipping name and are class according to applicable internations if I am a large quantity generator, be economically practicable and thurse threat to human health a	sified, packed, if and national if certify that if it at I have select and the enviror	marked, and labe government reguli have a program in ted the practicable nment; OR, if I am	led, and are in all resp ations. I place to reduce the v I mathod of treatment, I a small quantity gener	ects in prope clume and t	er condition and city of w	for tra	nsport by merated	highway to the dec	ree I ha ch minia my was	ive determined t mizee the preser te generation an	io nt
П	select the best waste management	method that is	available to me s	and that I can afford.							Date	
\bigvee	Printed/Typed Name FRED PFEIF	FER		Signature 5	udf	ley	fe	?			Month Day	1
TR	17. Transporter 1 Acknowledgement	of Receipt of	Materials			<i>V V</i>				1	Date	
RANSA	Printed/Typed Name	1		Signature	مريخ	• 					Month Day	Year
0	18. Transporter 2 Acknowledgement	of Receipt of	Materials								Date	
	i Odolod/Timod blome			i Signature							Month Day	
-we	Printed/Typed Name										1	Year
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Jan 15 00

29657

DATE

56439 PRDER NO.

CUSTOMER NO.

P.O. NO.

MANIFEST NO. 14 9237 247 - PEI

EMPTY BUILDING

PIONEER ENVIRONMENTAL ATTN: ACCOUNTS PAYABLE 1000 N. HALSTED, STE 202 CHICAGO, IL.

HAZCHEM ENVIRONMENTAL CORPORATION

1115 West National Avenue Addison, IL 60101 630-458-1910 Fax 630-458-1918

ENVIRONMENTAL MANAGEMENT & REMEDIATION SERVICES

60622

SHIP TO:

2659 WISCONSIN DOWNERS GROVE, IL.

P/U ONLY: 4 55GAL DRUMS NON-HAZ SOIL

DENNIS DAUGHERTY

SPECIAL INSTRUCTIONS

BILL

TO:

ND-100		PICK	JP ONLY	_	_	
S USED	DISPOSAL OUTLET	PROFILE #	DRUM#	QUANTITY	SIZE	CATEGORY
5 GAL-OTP	PCI	208107		14	22	1:02 HH
30 GAL-OTP						
55 GAL-OTP						
30GAL-CTS						
55GAL-CTS						
55GAL-OTS-NEW					-	1
55GAL-OTS-USED		<u> </u>		1		
85GAL-OTS						
85GAL-OTP						
CUBIC YD BOX		1				
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NNEL						
						
125/12						
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	R ACKNOWLEDGEN				_	
SIGNATURE	FRED PFE	6				
NAME (PRINT)	FRED PFE	FFER T	TITLE Safety	Mys.	_ DATE /// E	101
*** Generator a	cknowledges by signatu	re below that the or	riginal quotation wa	as exceeded due to	additional time	and materials ***
SIGNATURE						
NAME (PRINT)			TITLE		_ DATE	
						

LAND DISPOSAL RESTRICTION NOTIFICATION FORM 1

		Manil				1/15/0	
PROFILE	RCRA NON- REGULATED Please check if waste stream is not regulated by RCRA.	RCRA WASTE CODES (List all that apply)	SUBCATEGORY (See Table II and Select Key # if applicable).	Please check the a	LITY GROUP pplicable treatability oup.	CALIFORNIA LIST WASTES	REGULATED CONSTITUENTS FOR D001+, D002, D012-D043, F001-F005 & F039
•	ь	¢	d	Nonwastewater >1% TOC & >1% TSS	Wastewater	List all applicable constituents from key below g	List all applicable constituents from Table I and/or key below h
08107	×						

CALIFORNIA LIST WASTES (for Column g)

PCB > = 50 ppm

2) Halogenated Organic Carbon (HOC's) > = 1000 mg/l

- 3) Nickel (Ni) > = 134 mg/l
- 4) Thallium (TI) > = 130 mg/I

REGULATED CONSTITUENTS FOR F001, F002, F003, F004, F005 (for Column h)

Acetone	12)	Cresylic Acid	19)	Methanol	26)	Toluene
Benzene	13)	Cyclohexanone	20)	Methylene Chloride	27)	1,1,1 Trichloroethane
N-Butly Alcohol	14)	1,2-Dichlorobenzene	21)	Methyl Ethyl Ketone	28)	1,1.2 Trichloroethane
Carbon Disulfide	15)	Ethyl Acetate	22)	Methyl Isobutyl Ketone	29)	1,1,2 Trichloro 1,2,2 Trifluoroethane
Carbon Tetrachloride	16)	Ethyl Benzene	23)	Nitrobenzene	30)	Trichloroethylene
Chlorobenzene	17)	Ethyl Ether	24)	Pyridine	31)	Trichlorofluoromethane
Cresols (o,m, or p isomers)	18)	Isobutanol (Isobutyl alcohol)	25)	Tetrachloroethylene	32)	Xylene (Total)

MOR 000331

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Name	Morey Corp.	Generator USEPA ID No. ILD025415266
Generator Address	2659 Wisconsin A	v. Downers Grove, IL. 60515
State Manifest No	M27800168	Manifest Doc. No. 0 0/6/

INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide—LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D001	NWW D WW	High TOC	BCDEF GHIJKL MS	
11.B		□ www		ABCDEF GHIJKL MS	
11.C		□ www		ABCDEF GHIJKL MS	
11.D		□ www		A B C D E F G II J K L M S	·

•			
I hereby certify that all information submit	ted on this and all associated	locuments is complete and ac	curate to the best of my
knowledge and information.	, •		
Generator Signature Fel 81	eille	Title Man. of PCA	asy.
Printed Name FRED PFET		Title May of PCG	·070
Printed Name FRED PFEI	FFER	DateDele	00
	HOW MUST THE WASTE B	: MANAGED?	MOR 000332

For S, circle the appropriate response for the 3 italicized options:

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.
(CIRCLE ONE)

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penaltics for submitting a false certification, including the possibility of fine and imprisonment.

mailed on 8/2/00 \$

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY INVENTORY IDENTIFICATION NUMBER APPLICATION

FOR AGENCY U	ISE ONLY	: #708 308 Parks 1 5 1994 54, 5, 5,4 67	: 1.65.4468 70;7488386.47	YYON SAN HATA YENY	CKA CAMPASA UN ERLINO	en en en en en en en en en en en en en e	n ele laman el el r	
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LOCATI	ON ADDR	ESS	(exact str	eet location wher	e waste is ge	nerated)		
Card Type	COMPANY		,			,		
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11 13	24							
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	94			100	105			
	Status: (check		•					
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Number of	f Manifests ne	eded:	0	Snap-Top	Pin-	-Fed (com	outer fed)	
RETURN	ADDRESS:	INDICATE TH	E LOCATIO	N TO WHICH TH	IS FORM SHO	OULD BE RET	URNED.	
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Cont	act Person:		feiffer					
	Street:		rey Dr.		11	~^-		
	City:	Woodi		State:	Zip:	60517		
		AUT	HORIZATI	ON STATEME	NT			
		d an Illinois inventory	ID number. This	company has not previ	iously shipped was		n under the Minoi	•
			\sim \sim	any has or has applied f	or a USEPA genera		9/ 1.	
Signature of .	Authorized Rep	resentative:	tred	& fuffer	<u></u>	Date: 🔌	8/2/00	
				/ / / /				

IL 532 1473 LPC 228 Rev. Jul-98

INSTRUCTIONS

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY INVENTORY IDENTIFICATION NUMBER APPLICATION

An Illinois inventory ID number is required under 35 Ill Adm, Section 855.104. Information provided on this application form will be entered into the Bureau of Land's inventory computer system. Illinois Inventory ID numbers are assigned to a specific location address and not to the facility. A separate application is required for each location. Once an inventory number is assigned to a location, it will remain in the inventory system indefinitely. Please notify the Bureau of Land's Planning and Reporting Section if there is a name change for the location address.

The original and colored copies must be returned to the IEPA. Applications which are incomplete or are completed inaccurately will be rejected. To avoid delays or a rejected application, please read the following instructions carefully.

The gray shaded area at the top of the page is for Agency use. The number that is assigned to your location will appear in this space when your application is processed.

IEMA INCIDENT # (if applicable): Provide the Illinois Emergency Management Agency (IEMA) Incident number for this location.

COMPANY NAME: Provide the company's official name.

NAICS CODE(s): Provide the North America Industrial Classification System (NAICS) Code that best describes the principal product or services rendered at this location. See the attached list for codes.

GENERATOR STATUS (check all that apply):

- -Hazardous Large Quantity Generator (LQG): Greater than 1000kg/mo (2,200 lbs).
- -Hazardous Small Quantity Generator (SQG) or Hazardous Conditionally Exempt Small Quantity Generator (CESQG): Less than 1000kg/mo (2,200 lbs).
- -Nonhazardous Generator: Generator of nonhazardous special waste.

LOCATION ADDRESS: LOCATION: Provide the street address, a P.O. Box is not acceptable. CITY:, STATE:, ZIP CODE: Provide all information. TELEPHONE: Provide company telephone number including the area code. CONTACT: Provide a contact person for your company.

MAILING ADDRESS (if applicable): Provide this information only if it is different than the location address, if not, leave blank.

MANIFESTS: Indicate quantity and type.

RETURN ADDRESS: Type the address for UPS delivery of the package (processed application with number issued, manifests or manifest order form).

AUTHORIZATION STATEMENT: After completion of form, read the certification statement, sign and date.

RETURN COMPLETED FORM TO: Illinois Environmental Protection Agency
Bureau of Land (#24)

Planning and Reporting Section 1021 North Grand Avenue East P.O. Box 19276

P.O. Box 19276

Springfield, IL 62794-9276



Please print or type

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

	DO	NOT WRITE IN	THIS SPAC	E
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and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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Fadoral and State regulations provide for additional requirements in a included in these instructions, regarding the use and management of this form (40CFR, 49CFR, Part 511, Part 121).

Additional information such as "Rejected Load Procedures", state assigned (Got foot on numbers, mar fest forms, etc. can be counsed by contacting the Michigan Department. Time or mental Goodby (MDEQ), Waste Management Division's (WMD) Internet Home Page at: http://www.deg.state.millulwind.or.you.may contact the Marifest Unit directly et (517) 373-1217. Communition shares are not suppred by MOEQ

Complete all nexts on the manifest. Enter "NA" If any liam does not spely. Leave items that may be needed later blank, such as second transporter.

item 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

fram 2. Page number 1 of 1 should be recorded unless a continuation sheet is used to which case the total number of pages, counting the initial manifest page, should be show-

from 3. Enter the name of the generator and the making address to which the confless should be realised. If the address of the site at which the waste was placed into transports on is inherent from the mailing address record the are address in hem u.

Nom 4. Enter a telephone comper ((x,y) gives x and (x,y) in and x need a pent x in a generator can be reacted in the event of an entergency under x ps f(x) in turn xps f(x) in turn xps f(x). Item 4. Enter a telephone / uniber [] -- ;

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Rem 6. Enter the transported 115" Fifth Investor interference for their Fix Sart of man tested shipments where a transporte 70.441 (1995) in the last to turb to be a state of a presence because to DO USOU

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foolity (except for intermedal according the designated facility) must be sweet drivers working for one transporter. sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams

Rem 8. Enter the company name and site address of the facility designated to receive the wasta listed on this manifest

Item 10. Enter the U.S. EPA twelve dignidentification number for the designated facility described in Item 9. For Part 121 manifested enlaments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

Heart 15 Emily and 1 p. ... this could be waste as e Nacierdous meterial regulated by U.S. DOT (See 49

flow, 12. If mer the number of committees fill each waste and the appropriate abbreviations listed below for the type of couldinar. Each container type requires separate entry

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tient 17. From the name of the person accepting the wasts on behalf of the first transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the data

from 18. If applicable, print the name of the person accepting the waste on behalf of the second transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and entening the date of receipt.

Item 19. An authorized representative of the idea gnated (or elemete) facility must note in this spane any decrevanty in the wasie on prent

Item 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt.

NOTE: MDEG "Rejected Load Procedures" provides audiance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

Item A. A preprinted State manifest document number

Item B - H. May be required by other states

Rem 1. For hazardhus wastes, enter the appropriate waste numbers found in 8229 9212 through Fi259 9214 of Part 111 and 40 CFR 261 Supports C and D. It more than one waste number is required to eppricalities, identify the waste, enter the additional numbers in Item 2. In selecting the most appropriate wasts number the following nierarchy must be used. Souts waste (including Pland soute F). U (toxic), K. enviring sources), non-adute F (non-specific sources, and D (characteristic). State, regulated wastes forlow the same hierarchy as federally regulated wastes. For Part 121 wastes which are not hazardous Whates enter the appropriate code listed below

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INTERNATIONAL SHIPMENTS

Exports-Transponers must sign and enter the date the waste leaves the United States in Item 15. The nary exporter must identify the point of departure. from the United States.

Importe- Shipments of hazardous and Part 121 regulated waster must be accompanied by a U.S. EPA Uniform riazardous Waste Manifest, Any person functioning as the U.S. Importer, as defined in Part 111, must complete the manifest as required in 9299.9310 *

Transporters of hazardons waste shipments must deliver a copy of the manifest to U.S. Customs when it contagles exporting the waste across U.S. borders. Record the foreign waste manifest document ruinberin item 15.

MANIFEST DISTRIBUTION

GENERATOR: Upon plecing the waste into transportation (first transporter eigns and detec manifest) ismove the white and gold tranded copies and give the remainder of the manifest copies to the transporter. Send the white copy to MDEQ no leter than the tenth day of the month following the shipment. For shipments of wastes being transported to a designated facility outside of Michigan when an out-of-state marriest is used, mail to the MDEQ a photocopy of the manifest when the shipment is placed into transportation and mail a photocopy of the second generator manifest copy, when received:

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility signs and dates the manifest, the danary banded copy will be returned to you. If more than one transporter is used, the manifest is to be copied and supplied to the previous transporter acknowledging the receipt of the shipment by it enact transporter. The canary banded copy stays with the manifest until the pripment reaches the designated facility

DESIGNATED FACILITY: Upon signing and duting the merifest as received, give the canary banded , the transcenter. Return the blue banded dayly to the generator. Mail the pink banded copy to the MDEO no later than the 10th day of the month following receipt of shipment.

ADDRESS ALL MOED MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30036 LANSING MI 46909-7538

The control of the control of the second formation is estimated to average 31 minutes for generators, 16 minutes for transporters and 16 minutes for treatment storage and discosal facilities. The burden associated with reading the regulations to the control of national control of natio

An ependy milk included a service of the sunis not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB numbers for EPA's regulations are listed in 40 CPR Part 3 and 46 CPR Unitarity and control number. The OMB numbers for EPA's regulations are listed in 40 CPR Part 3 and 46 CPR Unitarity and control number. The OMB numbers for EPA's regulations for exposure for reducing the burden, including the burden, including the burden, including the burden, including through use of extormation defection facilities for the control number of the Office of Information and Regulatory Affairs. Office of Management and Budget, Afterson, Okak Office of PA, 725 17th Street, N.W., Washington, D.C. 2003. Include the OMB control number in any porteepondence.



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and Part 121 of Act 451, 1994, as amended.

Fallure to file may subject you to criminal and/or civil penalties under Section 324,11151 or 324,12116 MCL.

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Federal and State regulations provide for additional requirements, not included in those linear actions, regarding the use and management of this-form (40CFR, 460FR, Part 181, Part 121)

Additional information such as "Rejected Load Procedures", state courging to realist his to how a linear test farms, etc., can be obtained by contacting the Michigan Department of Emerican with Governy (MDEG., Waste Management Division's (WMD) Internet Home Page at: http://www.load.atate.nal.cs.world or you may contact the Manifest Unit directly list (\$17) 373-1217. Continuation sheets are not supplied by MDEO.

Complete all jeems on the manifest.' Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

item 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested ship-ments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001)

Nom 2. Page number 1 of 1 should be recorded unless a continuation sheet is used to which case the other number of pages, counting the initial manifest page, should be shown

ith 3. Enter the name of the generator and the mailing address to which the man fest should be maried If the address of the site at which the waste was placed into transportation is different from the order g address record the sits address in Item J.

NOTE: The 24 hour emergency or commonweal leading is nationally a raise also include, proper may be different from the generator's unit, le a colora-

Rem 5. Enter the company hards of the first bansporter who will rai sport the was so

Rem 6. Enter the transponers U.S. SPA twente digit identification number. For Park 101 managing stripments where a transponer threst of the very Taka sun programum antare lux main he used

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Rem B. Enter the second transported of the Period Period of the the Region of the Control of the Period of the Per fested shipments where a high money of which is those will for EPA with pure section of a company of number is to be used

where the contract was processed to the contract of the contra Signature of the second of the the designated lausing many constant 1923 873 drivers working for one diameter con-A STANKE. sheets must be appropriately completed in their energy and properly distributed. Continued in sheets may 1 not be used to list additional waste streams.

om 8. Enter the company name and site address of the facility designated to receive the watte stand you have a Recycled Proposition of Reused of Management (Average Waste the manifest

item 10, Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number as to be used.

flam 11 - Enter an Nilo the HM box if the waste is a hazernous material regulated by U.S. DOT (See 49 The first of the control of the cont Admitional school (i.e., is all each be read sed in this space, including becomes much a and seportable business أحجر بمايوج الي الأحمال الحمالة العلم **و الأ**لم المراجع where the property of the section

Hern 12, Enter the number of containers for each weste and the appropriate abbreviauous listed below for the type of companier. Each container type requires separate entry.

DM - Melti Gruns, buren, kegs

DVI – Wooden durt, barrett, kege

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GL a Dumo Truck

TP = Tanks, portab

« Cargo tanks (tank trucks) TC = Tank cars

F. VERGOY

(A) a Aleka prives carrier cases freculding sources;

CW = Wooden Enxes, carteris crises OF a Fiber or plasho boxes, carter s, cases.

BA - Burlay, Both, Dayer, presid bags.

hair 13. Sinter the focal quarity of waste described on each line. Ou list like describes it from the

from 14. Enter the appropriate entracestays for the princips make release makes

G = Gallons (iiquids only)

P-. 15

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M - Mexic for a (1000 hg)

N = Cubic meters

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norm 13 (1) A light cook may use this colors to indicate special transportation, the chiefs intrage of dishoist. The test of though Export information as noted in the first mational or pre-ent instructions. Saction of the acceptance

rust lead orient synar name, align all in pare the bent carrier systematic

bain to Post the harry of Individual County of the Assistance and of the first transcorper. That person must anknowledge acceptance of the waste geograped on the manifest by signing and entering the care $rac{1}{3}$.

item 18. If applicable, point the game of the person according the waste on behalf of the security xnoner. That person must acknowledge acceptance of the waste described on the maintest by \$12.5%, allow ratios frequent.

item 19. An authorized represents we of the dasignated (or a ternate) facility most note in this space any discrepancy is the waste enigment

Item 20. Print the name of the person accepting the waste on behalf of the designated faculty. That person must acknowledge acceptance of the waste described on the manifest by signing and emering the date of receipt

NOTE: MDED "Fleje find Load Procedures" provides guidance for partial or total load, rejections

Only the following information in the shaded eres is a State of Michigan requirement:

flem 4. A pressured State manufest document number

train Birth May to required to other states.

item. The recognized which is letter that incremely waste numbers found in 17299 sont this ign Free 1829 and the introduction (1828) Servey of least 10 the role than one waste number is required in action to the county the waster order the productions in order is the selecting the productives. neural i sicrica de maioria de la companya del companya del companya de la companya de la companya de la companya del comp Betto Perticipal as reducing required which is the First 121 year or which are car world term abode analogo and extra extra clark

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Burnay Syring April 19 Cunaica and care, Emergency Response Cleanup Household Generated

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in from 15. The primary exporter must identify the point of departure from the United States.⁴

Importe- Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA tim for a muzicidous Waste Manifest. Any person kinctioning as the U.S. importer, as defined in Part **1, must complete the manifest as required in R299.9310 *

The system of head and washe staineds must dense alone of the mathematics S Datains when ℓ poors, a character he washe washe across a S barden. Here the harmy washe mathematical adversary

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter tions and dates manifest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Send the wriste copy to MCEQ no later than the tenth day of the month following the shupments of weaters being transported to a designated finding outside of Michigan when an out-of-state manifest is used, mail to the MDEO a photocopy of the manifest when the shipment is placed into transportation and mail a photocopy of the second generator manifest copy, when received.

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility signs and dates the mainfest, the canary bended copy will be returned to you. If more than one transporter is used the mailest is to be copied and supplied to the previous transporter admovinedging the receipt of the shipher how the nowt transporter. The canary banded copy stays with the manifest until the shipment reaches

DESIGNATED FACILITY: Upon signing and disting the manifest as received give the canary banded copy to the transcenter. Fertilin the blue banded copy to the generator. Mail the pink har ded cupy to the Ministry to rate, or an inter-total day of the month following receipt of shipment.

ADDRESS ALL. MOFO MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION GAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

The pitch recording burden for this collection of information is estimated to average 31 minutes for generators, 16 minutes for transporters, and 15 minutes for treatment, storage and disposal facilities. The record keeping burden per responsive to this collection of information is estimated to average 6 minutes for generators, 6 minutes for transporters, and 6 minutes for treatment, storage and disposal facilities. The outden associated with reading the regulation is estimated at 1 hour and 15 minutes annually. Burden meens the total sine, effort, or financial resources expended by persons to generate, meintain, retain or disclose or provide information to or for a Federal agency.

wired to respond to, a collection of information unless it displays a currently vasid OMB control number. The CMB numbers for EFA's regulations are fisted in 40 CFR Part 9 and 48 CFR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including strongly use of automated collection feature, and the burden, including strongly use of automated collection feature, and suggestions for reducing the burden, including through use of automated protection feature, and suggestions for the other collections of the burden, and Regulatory Affairs, Office of Menagement and Budget Attention. Deek Office of the other collections for the other colle



RESPONSE

WASTE MANAGEMENT DIVISION **MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

DO NOT WRITE IN THIS SPACE ATT. 🛘 DIS. \square REJ. PR. Required under authority of Part 111 and Part 121 of Act 451, 1994, as hebrems

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324 12116 MCL.

Rev. 5/98

Form Approved. OMB No. 2050-0039

1. Generator's US EPA ID No. UNIFORM HAZARDOUS Manifest Page 1 Information in the shaded areas is not required by Federal law. Document No 16771 **WASTE MANIFEST** ILB900068910 Generator's Name and Mailing Address A State Manifest Document Number MOREY CORP 100 MOREY DR., WOODRIDGE, IL 60517 (638) 754-2300 Generator's Phone (OSITO ADINITATION DE LA CONTROL DE LA CONTRO 5. Transporter 1 Company Name ENVIRONMENTAL WASTE BERVICES MICHIGAN POLLUTION EMERGENCY ALENTING BYSTEM, IN MICHIGAN AT 1-806-262-4708 OR OUT OF STATE AT 817-373-7860 AND THE NATIONAL Day. US EPA ID Number Transporter 2 Company Name **US EPA ID Number** ILD984775049 OZINGA TRANSPORTATION SYSTEMS 9. Designated Facility Name and Site Address US EPA ID Number G Share Company of th MICHIGAN RECOVERY SYSTEMS. INC 36345 VAN BORN RD. ROMULUS, MI 48174 MID060975844 12.Containers Waste 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). Quantity No. Туре Wt/Vc RO MASTE FLAMMABLE LIQUID. AND AROMATIC HYDROCARBONS E 8 N.O.S. (ALIPHATIC N OU E 3 UN1993 PG 11 (DOC1) . A ь O C. d. A PRINCIPAL PROPERTY OF THE PROPERTY AND A SECOND PROPERTY AND A S 15. Special Handling Instructions and Additional Information Emergency Contact # (630)754-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, pecked, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me as nd that I can afford. Date Printed/Typed Name Signature Month Q#y Year DAZABET ZA NOURS PER DI MALBONEZ DA L 17. Transporter 1 Acknowledgement of Receipt of Materials Date Pay Printed/Typed Name Signature Monsh Date 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature 19. Discrepancy Indication Space MOR 000341 ALL SPILLS N CENTER AT 1 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in term 19. Date Month Day Year Printed/Typed Name Signature EOP 5110 EPA Form 8700-22 (Rev. 9/88)

GENERATOR 1ST COPY

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The product conversions about proposed in the executive or lead of the officer the nount or at eat (Form a 100-22A) for both in-The words by defined in 40 CFR and Part 111 of Act 451 of 1934, an amended (Part 111). State tend to the To give the lives of the prophet for all regulated convenients of Fig. 12 and while the value of the prophet for all regulated convenients of Fig. 12 and while the value of \$2.000 and \$2. the complete Part (21)

Federal and State requisitions provide for additional requirements, not included in these instructions, regarding the use and management of thistorm (40CFR, 49.7-8), Park 121:

Adiational information such de "Rejected-Losis Procedures", state 24. 1997 3 test forms, etc., can be obtained by contacting the Michigan Department on a new form July by (MDEQ). Waste Management Division's (WMD) Internet Home Page at: http://www.dec.stube.mr.co.enrd.or.you.may contact the Marifest Unit directly at (\$17) 373-1217. Continuation sheets are and supplied by MDEO

Complete all items on the manifest. Enter TN/A* If any item does not author. Leave items that may be needed later blank, such as second transporter.

from 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number a state assigned number must be obtained and used. The generator of the waste must enter a unique fire or git manifest document number (e.g. 00001).

Rem 2. Pede number 1 of 1 should be recorded unless a continuation known yill rend in which case the colle number of pages, counting the initial manifest page, should be shown

Nem 3. Enter the name of the generator and the melling address to writh the manners are gone to interest If the address of the site at which the waste was placed into transport to the site of the control of a method address record the site address in item J

Rem 4. Enter a telephone cumper circ complates in the weekly or will bridge a vigority of the department be reached in the event of an emaignisty ancion a period or talls for smed losin

NOTE: The 24 hour emergency procedures selected upento province (a) to all a local quaper may be different from the generator - phote is upper

Rem 5. Enter the company liaine of 30 Profit anaposter who will also of the west of

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from 8. Enter the second transport to the section of Company of the Company fested shipments where a six control sheet that have a U.S. Et & year place to be a control of a control of the number is to be used.

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Nam 10, Enter the U.S. EPA twelve digit identification number for the designated facility described in Item. 9 For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

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Nem 12. Enter the number of containers for each waste and the appropriate abbreviation's listed below for the type of container. Each container type requires separate entry

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from 18. If applicable, print the name of the person accepting the waste on behalf of the second mans That clears or must acknowledge andeptionde of this waste described on the maintest by eighting and art mile, the date of move pri-

Rem 18. An aumonzed representativa of the our signified (i.e. alternate) facility missingte in this space only discrements in the water strictment.

Item 20. Print the name of the person accepting the waste on benefit of the designated facility. That person must beknowledge acceptance of the waste described on the manifest by eigning and entering the date of recept

NOTE: MOEQ "Relocted Load Procedures" provides guidance for partial or total load injections

Only the following information in the shaded erea is a State of Michigan requirement:

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ell matter to justice a and the least take had be all Quality are seen to Emergency Hesponse Cleanup Household Generated Recycled Precious Metals Recycled, Reclaimed, Used or Reused Universal Waste

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. from the United States,*

Imports. Ship nents of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA. The from hazardous waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, must be existed it in mainfest as required in Part 9110.

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MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter eigns and dates manifest) remove the white and gold banded copies and give the remainder of the maintest copies to the transporter. Send the white copy to MOEQ no later than the tenth day of the month following the shipme shipments of worlds being transported to a designated facility outside of Michigan when an out-of-state manifest is used, mail to the MOEQ a photocopy of the manifest when the shipment is please into transportal on and mail a photocopy of the second generator mandest copy, when received

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility signs and dainst the manifest, the canary bended copy will be returned to you. If more than one transporter is used, the in alleval to the copied and supplied to the previous transporter seknowledging the reveipt of this shiptivinity fill the stip an aporter. The duning year modificity stays, with the map feet upon the stip time of readness the designated facility

DESIGNATED FACILITY: Upon signing and dating the manifest as received, give the canary banded only to the transcauter. Return the bill a banded popy to the generation. Must the pink bottood dopy to the MCEO in later than the 10th pay of the month following receipt of shipment.

ADDRESS ALL MOEO MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY D BOX 10038 LANSING MI 48906-7538

The cultiforescorting burden for this collection of information is estimated to everage 31 minutes for generators, 16 minutes for treatment, and 16 minutes for treatment storage and disposal facilities. The record freeping burden per response for this collection of information is estimated to average 6 minutes for generators, 6 minutes for treatment, storage and disposal facilities. The burden associated with reading the regulation is estimated at 1 nour and 15 minutes answelly. Burden means the lotal time, effort, or financial resources expended by persons to generate, maintain, retain or disclose or provide information to or far Federal agency.

An operary may not conduct or apparator, and a person is not required to respond to, a collection of information unless it displays a currently valid QMB control number. The QMB numbers for EPA's regulations are insted in 40 CFR Part 8 and 48 CFFI Chapter 15. Send convinents regarding treas burder statements or any other aspect of this collection, including suggestions for reducing the burder, including suggestions for reducing the burder, including suggestions and reducing the burder, including suggestions for reducing the burder, including suggestions for reducing the burder, including suggestions for reducing the burder, including suggestions and regulatory Affairs, Office of Management and Budget, Assertion, Description, 

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM

Please check the facility you are shipping to: Michigan Disposal Wasto Treatment Plant (Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 TDA ID # MID 000 724 021

Wayne Disposal, Inc. Subtitle C Landfill (Secure Hazardous Waste Landfill) 49350 N. I-94 Service Drive Belleville, MI 48111 EDA ID # MID 049 000 022

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174

MOR 000343

	70 724 031	BIA I	D # 1011D 040 050 0		PA ID # MID 000 973 844
Generator Name	The Morey Cor	p.	Genera	tor USEPA ID No	ILG000060910
Generator Address	100 Morey Dr.	, Wood	ridge, IL	60517	
State Manifest No	m & fo	16771	Manifes	t Doc. No	1711
		1	Instructions		
• In Column 1 identif	y <u>all</u> USEPA hazardou:	_		is waste shipment	
	the appropriate treats		• • •	-	water (WW).
 In Column 3, enter waste will be treated 	the appropriate Subca l using one of the altern	itegory, if native trea	applicable, and als	so enter "Contamin: provided by 268.49(ated Soil" or "Debris" if the c) (soil) or 268.45 (debris).
•	the letter of the approp	_			
EQ Resource Guide	LDR/UHC Constitue	nt Table fo	or any constituents	subject to treatment	
Manifest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A E	0001	© ww	High TOC	B C D E F G H I J K L M S	
11.B		O WWW	,	A B C D E F G H I J K L M S	
11.C		O WWW		ABCDEF GHIJKL MS	
11.D		O WWW	•	A B C D E F G H 1 J K L M S	·
I hereby certify that all in knowledge and information Generator Signature Printed Name FRED		la .		uments is complete a	nd accurate to the best of my

For S, circle the appropriate response for the 3 ltallctzed options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A S. (CIRCLE ONE) (CIRCLE ONE) CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CIRCLE ONE)

HOW MUST THE WASTE BE MANAGED?

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law-that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, includin; the possibility of fine and imprisonment.

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Sec 3004(d) prior to land disposal.
- IL THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS, I certify under penalty of law that 1 h personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certificat and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 2 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of a prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine a imprisonment.
- D. THIS RESTRICTED WASTE. FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY. IV BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance wi the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personall examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification the the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFI 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IY TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- II. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- 1. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL, (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOVE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 817-372-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8892 24 MOURS PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

1 Roe 10/23/00

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DO NOT WRITE IN THIS SPACE

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Hequired under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Rev. 5/98

Ple	ese print or type.					Approved. OM	B No. 205	0.0039	171
	WASTE MANIFEST	Generator's US El 19900050910	PA ID No.	Manifest Document No. 16494	2. Page of			he shaded a ed by Fed	
	3. Generator's Name and Mailing Address MDREY CORP. 100 MOREY DR., WOODRIDGE, IL 6	630)	754-2300		L.M.	10.10	1		
	4. Generator's Phone () 5. Transporter Company Name ENVIRONMENTAL WASTE SERVICES	6.	1 L R & & & & & & & & & & & & & & & & & &	Number 87847	OSSI	all all all and the	217		
	7. Transporter 2 Company Name OZINGA TRANSPORTATION SYSTEMS	8.	US EPA ID	Number	6 300				
	9. Designated Facility Name and Site Addre	ess 10.	US EPA ID			DO ON THE			
	MICHIGAN RECOVERY SYSTEMS, INC 36345 VAN BORN RD. ROMULUS, MI 48174	,	MID06097	75844			1	925163	
	11. US DOT Description (including Proper Shi HM ID NUMBER).	ipping Name, Haz	ard Class, and	12.Conta	Type	13. Total Quantity		I. Waste No.	
GENER		D. N.O.S. ((S)	ALIPHATIC	002		0110	в	Deci	
ATOR	b.								MIG
	C.								
	d.								
	15. Special Handling Instructions and Addition Emergency Contact # (630) 754-			and the first section of	Land History		mirate i		
	16. GENERATOR'S CERTIFICATION: I hereby declare the classified, packed, marked, and labeled, and are in all rest if I am a large quantity generator, i certify that i I to be economically practicable and that I have sel present and future threat to human health and the generation and select the best waste management metho.	pects in proper condition have a program in place lected the practicable a environment; OR; it	in for transport by hig ace to reduce the method of treatmonth am a small qua-	hway according to a volume and toxicit ent, storage, or di intity generator, I	pplicable in y of waste sposal cur	ternational and r generated to i rently available	retional go the degree to me	overnment reg se i have de which minimi	ulations. termined izes the
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4280	Printed/Typed Name THOMAS LACKE	7	Signature	lomas.	P	Luy	K	2911	ĬŐ
-	Printed/Typed Name ACK / ANGURE	of Materials	Signature	Durle	<u></u>		7	SUP 3	Year O'C
	19. Discrepancy Indication Space		- Juna -	RHINGLE	7 _	,		7 1 1 2 - 1 2	
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1	20, Facility Owner or Operator: Certification of Item 19.	receipt of hazardo	us materials cov	ered by this ma	nifest exc	cept as noted	וווי ר		
	Printed/Typed Name		Signature	3/1	1			Date Ionth Day	Yes,
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reports and State regulations provide for additional regularments, and included in these instrucbona, regarding the use and management of this form (40CFR, 43C/F, Far.) 111, Part (21)

Additional information such as "Rejected Load Procedures", state assigned a law information numbers in an fest forms, etc., can be obtained by dontacting the Michigan Department of Environment is united by (MDEC), Waste Management Division's (WMD) Internet Home Page at: http://www.dec.srste.co.usramd.c contact the Manifest Unit directly, at (517) 373-1217. Continuation sheets are not supplied by MDEQ.

Complete all items on the manifest. Enter "N/A" if any item does not 400 y. Leave name that may be needed later blank, such as second transporter

News 1. Enter the generators U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number is state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.a. 60001).

Item 2. Page number 1 of 1 should be recorded unless a continuation should be used, in which once the total number of pages, counting the mitfal manifest page, should be show:

itiom 3. Enter the name of the generator and the mailing address to weren the mainfest should be mailed If the address of the site at which the waste was placed into transportation is different from the majority address record the site address in from J.

Beth 4. Enter a telephone number (initiality) greaticide) where an authorized by sidning generator can be reached in the event of an emitigary product a μ_0 , \hat{n} in it is a representation of

NOTE: The 24 hour emerging is book a new two required for a hazardous more rale on our rigidaper may be different from the gene arc. This emiliance

from 5. Error the company transport the first transporter who will anaport the waste

Rem 6. Enter the transporter a wiScope A believe digit identification number. For Part 121 materialists shapments where a transporter as we not never a page 144 away bettind her in static assigned numbers is to be used.

tion 7, if using a second harast riter let us the contraction of a contraction

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from 9. Enter the company name and site address of the facility designated to receive the waste listed on

them 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in from 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

Per 41. Hime at X in the HM box of the waste is a transfer of aterial regulated by U.S. DOT. (See 49. Unter the recursor U.S. COT sharpers bendration including Proper Shipping Number Brook and of contraction grapping wising in several with the wideling at the new your contents are

itiem 12. Enter the number of cordainers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry.

The Metal droms, correla keas

DVv - Wooden drum, barrels, 4008

DF = Familion d or plastic drums, barrels, hegs.

Jump Truck

16 - Tanka, portuble

TT a Cargo lanes (tank trucks)

TC e fant cars

Cylinders

in a Medal objekt, cartora, basas jino dahiji . J., Chaj

CW = Wouden boxes, certoris, cases

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item 18. If applicable, print the rivine of the person accepting the waste-on behalf of the second THE ENGLY THE BEKNOWLENDER ROCEDITIONS OF THE WASTE DESCRIBED ON the marriest of Se The page of receipt

hem 19 %, as the restrict representative of the designated (or attempte) facility must note in this snace discreptionally at the waste empirement.

Rem 20. Print the name of the person accepting the weste on behalf of the designated facility person must accreminate acceptance of the weste described on the manifest by signing and inte the date of receipt

NOTE: MOED "Rejected Load Procedures" provides guidence for partial or lotal load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

them A. A preprinted State manifest document number

Rem R + H. May be required by other exites

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INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in turn 15. The primary exporter must identify the point of departure. from the United States."

Imports. Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA. Striction hazardous Waste Manifest. Any person functioning as the U.S. Imponer, as defined in Part 111. nucl remointe the manifest as required in R299 9310 *

andwhere of hazardous which show to this deep a play of the market to the quantum when ours, it exports the warter agreed U.C. borners. Note the foreign waste manifest document ال يعدون المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعا

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates marriest) remove the white and gold banded copies and give the remainder of the manifest popies to the transporter. Send the white copy to MDEQ no later than the tenth day of the month following the stripment. For snipments of wasses being transported to a designated facility outside of Michigan when an out-of-state manifest is used immit to the MOEQ a phiotocopy of the manifest when the shipment is placed into transcontation and mail a photocopy of the securit generator maintest copy, when received.

TRANSPORTER: Upon delivery to the designated (or elternate) facility, and that facility signs and dises the manifest the canary banded copy will be returned to you. If more than one transporter is used, the manifest is in be copied and supplied to the previous transporter actinomiseging the receipt of the threementity the year transporter. The concry banded copy stays with the manifestiescheen treatment a bitt film the designated facility.

DESIGNATED FACILITY: Upon signing and desing the manifest as received give the candry banded in the mall sporter. Return the blue banded copy to the generator. Mall the plnk banded copy to the VOLG in little that the 10th day of the month following receipt of shipment.

A DORESS ALL MIDEO MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION AN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 -LANSING MI 48909-7538

The is who recording turbers for this collection of information is estimated to average 31 minutes for generators. 16 minutes for transporters and 16 minutes for transporters, atomate the transporters, and 6 minutes for tr

An agency may not conduct or approper, and a person in not required to respond to, a collection of information unless it displays a currently valid CMB control number. The CMB numbers to: EPA's regulations are issue in 40 CFR Part 9 and 45 CFR Chapter 15. Send comments regarding three burden statements or any other aspect of this collection, including burgers for reducing the burden, including a requirement and automated collection before to the Collection of the Order of Information Division, U.S. Environmental Protection Agency (2.37), 401 M St., S.W., Washington, D.C., 20450 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Attention, Desk Office or EPA, 725 17th Street, N.W., Washington, D.C. 20500, include the OMB control number in any correspondence.

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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GENERATOR 1ST COPY

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Fellow 4 is if the time the contract two die generators and transparte to differentiables which and awarens or the contract of the transparent and and stock which did discretifies some use the food 43 NF20 and if the contract or the contract of the food and discretifies the contract of the food and the contract of t Due was the architecture of CFR and Part 111 of Act 451 of 1566, as amended (Field 111). State regulations are require the use of this manifest for all required shipments of i.g., 1 industrial stace as in part of flart \$50 of Amilian are in agent to the maker (Fart 124)

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 49CFR, Part 11). Part 12:)

Accidental information such as "Rejected Load Procedures", state and processing the processing of the processing the processing and processing the processin

Complete all litures on the manifest. Enter "NA" if any item does not apply. I have hems that may be needed later blank, such as second transporter

Item 1. Enter the generators U.S. EPA weive digit identification number. For Part 121 manifested ship-ments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five dig? manifest document number

ttem 2. Page number 1 of 1 should be recorded unless a continuation sheat is used in which case the total number of pages, counting the initial manifest page, should be shown

Nem 3. Enter the name of the generator and the mailing address to which the manifest stop, dica it yield. If the address of the cite at which the waste was placed into transholded it is is ferent from the mailing. address record the site address in Item J.

Item 4. Enter a telephone comber tincketing area code; where an actionized agent of the generator con-be reached in the event of an emerging a solidar a partial or total renoting load.

NOTE: The 24 hour emergency procedure is an education at 22 pt 2 lbs. On a crab our oring eyes may be different from the generato in the number ther

from 5. Enter the company, and a of the high generously also will be usually the ways.

Rem B. Error the transporter's U.S. EPA, menue digit identification number. For each secretary consisted shortens wherea transporter uses of the each EPA away retriamber to state usely each content to the be used.

Rem 7. If using a second became the enter the company name

fested shipments where a new contemporal for now a U.S. CPA cassigned for the contemporal been with a singermin

NOTE Blimbre than two the values as a country of eight wide of the continuation since the operation since the operation since the operation since the operation of the continuation since the operation of the continuation since the operation of the continuation of the operation o sinces in them to the communication and the manigement of the more many the more interested and the more interested and them is a fixed to the contract of the as must be appropriately completed in their entirely and properly distributed. Contribution sheets may not be used to list additional waste streams.

from \$. Enter the company name and site address of the facility designated to receive the waste listed on Fis manifest.

from 10. Enter the U.S. EPA twelve Sgit identification number for the designated facility described in item. 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used,

thim is a Cirker an X-1 this MM trax in this waste is ultrazerdous material regulated by U.S. DOT. (See 49) 105-05. If the Elementary 105-00 That thing version monotoding France Shipping Name Hazard Causing Collectin 10 Number 107-059, and packing group to reach waith salice (feet in 49.078-172). Additional for mission has also executed and or suppose following that most same and constitution as executed on the constitution of the time of the constitution of the constitution of the constitution of the waste

from 12. Enter the number of contenners for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry.

DM - Meral grums, barrels, keds

DNY - Y-loaden drum, barrels, keds

Diff is filterhoard or praised or unit it has old like its

DT a Dance Trace

P = Tarks, portable

TT's Cargo tanks (tank trucks)

TO a Tank care

Crinders

His which house cartons, cases including relicited

TW - Wooden token meters rives

a Fiber or bustle period (latterly, cares

BA = Buriap, down, paper/presidential

doin 13. Finally a line liquidity of waste described on each line. Do not use believes or follotions.

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i kirilisti. Badisələr inskrijetini — saytın yertik Mikin yırısın ala nefed va trelifik tajınatı na sector later a secretar ture.

them 15. The general action and penaltheat exist whole sign and date the control action estatement

them (fig. 4) is the configuration accepting the waste on bottem first transporter. That person must acknowledge aconthings of the waste described on the manifest by signing and knowledge is done J 10:3

Nem 18. If applicable, print the name of the person accepting the waste on behalf of the second trains in a rknowledge enceptance of the waste described on the manifest by storing. and a fer ly the date of receipt

them 19. A is in or accidences entrance of the clessigned (or alternate) facility must note in this space any discreption of wash and feet

from 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must are now edge acceptance of the weste described on the manifest by signing and entering the cate usines, or

NOTE: MOTO "Highestess" conditions provides guidance for partial or total load injurations.

Only the tailowing information in the shaded area is a State of Michigan requirement:

hem A. A riles have State manifest document number,

Item 2 - h. May be required by other states.

into a custosco lungoro in territo appropriat<mark>o waste numbras found in 18299.9212 dun</mark>uga 14 anni et 10 anio 40.098 201 Sumulas Clarid Di il impre divenime waste numbra is respued to F439 XC4 3 2 3 appropriately identify the whole leaser the additional numbers in from J. In extecting the most appropriate waste number the following trispretty must be used so the waste productive P and abuse P, is project, a positive P in the regulated various of the whole source are 0 (photocorrected). If the regulated various to when same there are a federally regulated wastes over P and P is wastes which we not recombined. with the first state strate code listed below

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Universal Waste	U

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure, from the United States."

Imports. Stipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA Uniform Hazardous Waste Mandest. Any person functioning as the U.S. Importer, as defined in Part 111, musi complete the menitest as required in R299.9310 *

Transcrives or nauvious waste dromeras miss define a cruy of the harriest to CS. Custons when court of or exporting the waste about CS, pomors. Note the follegin waste manifest document number of terms.

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates manifest) remove the white and gold banded copies and give the remander of the manifest occes to the fransporter. Send the white copy to MDEQ no later than the turnin day of the month following the shipment. For shipments of wasted being transported to a designated facility outside of Michigan when an out-of-state manifest is used, mad to the MOEO a photocopy of the manifest when the shipment is placed into transpartition and high a photocopy of the second generator manifest copy, when received

TRANSPORTER: Upon delivery to the designated (or shermate) tability, and that facility signs and dates the manifest the canary banded copy will be returned to you. If more than one transporter is used, the mandest is to us copied and surgained to the previous transporter administration to receipt of the shipment by the north transporter. The canary banded copy stays with the manifest until the enigment reaches the designated facility

DESIGNATED FACILITY: Upon signing and dating the manifest as received, give the canary banded copy to the transporter. Return the bille handed copy to the generator. Malithe pink banning copy to the ROBO includer than the 10th day of the month following receipt or shipment.

ADDRESS ALL MOLG MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PC BCX 30038 LANSING MI 48909-7538

The public specific powder by the cultivation of information is extended to average 0.1 invalues for generators. It minutes for transporters, and 16 minutes for seatment, storage and deposal facilities. The record keeping bunden pile seatment of the cultivation of information is extended to average 6 minutes for generators, 6 minutes for insulated for invaling continuous and deposal facilities. The bunden associated with reading the regulations in average and deposal facilities. The bunden associated with reading the regulations in a facilities for invaling the regulations in a facilities for invaling the regulations.

Tym by not construct all construct and a person is not required to respond to, a collection of entornation unless of displays a currently valid OMB control number. The OMB numbers for EPA's regulations are lessed in 40 CFR Part. Fair: 43 CFR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including through use of euromated collection hechtiques to the Director, OPPE Regulatory Information Division, U.S. Environmental Protection Agency (2.37), 401 M.St., S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs. Office of Management and Budget, Attended Diese Citizen (1994), 17th Street, N.W., Washington, D.C. 20503. Include the OMB control purpose in any correspondence.

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Wasto
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID# MID 2020 224 221

Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

	000 724 831	EFA	D # MID 048 090 ()33 E	PA 1D # M1D 060 975 844
Generator Name	The Morey Co	rp.	Genera	tor USEPA ID No	ILG000060910
Generator Address_	100 Morey Dr	., Wood	lridge, IL	60517	
State Manifest No	mt foll 1	444	Manifes	st Doc. No.	l 94
			Instructions		
• In Column 1 iden	tify all USEPA hazardo			is waste shipment.	
• In Column 2, cho	ose the appropriate trea	tability gro	oup: Non-Wastewat	er (NWW) or Waste	water (WW).
• In Column 3, ent	er the appropriate Sub	category, il	applicable, and al	so enter "Contamin	ated Soil" or "Debris" if the
	le the letter of the appro				(c) (soil) or 268.45 (debris).
		-	• •		ne Reference Number(s) from the
	de-LDR/UHC Constitu				
Manifest Line Item	l. Usepa	2. NWW	3. SUBCATEGORY	4. HOW MUST THE	5. REFERENCE NUMBER(5) of Hazardous Constituents
#	IIAZARDOUS WASTE	or WW		WASTE BE MANAGED?	contained in the waste. Complete for F001-F005, F039,
	CODE(S)			(Circle one)	D001-D043, Soil & Debris wastes.
11.4	D001	Q WWW	High TOC	B C D E F G H I J K L M S	
11.B		O WWW	·	A B C D E F G H I J K L M S	
11.C		O WW		A B C D E F G II I J K L M S	-
11.D		O NWW		A B C D E F G H I J K L	·
		O ww		M S	
knowledge and inform				uments is complete a	and accurate to the best of my
		How Mus	THE WASTE BE M	ANAGED?	MOR 000351
For S, circle the appropr	iate response for the 3 <i>Itali</i>	cized option			

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS, I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE. FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY, HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- H. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- I. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOYE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED : FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL, (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K. THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- L. THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOVE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

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LDR Page 2 (6/71)



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

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Failure to file may subject you to crimi-
nal and/or civil penalties under Section

amended.

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324,11151 or 324,12116 MCL

and Part 121 of Act 451, 1994, as

Form Approved. OMB No. 2050-0039 Please print or type Manifest UNIFORM HAZARDOUS 1. Generator's US EPA ID No. 2 Page 1 Information in the shaded areas Document No is not required by Federal **WASTE MANIFEST** 10025415266 Beach law Generator's Name and Mailing Address A State Medited Document Number MOREY CORP. METRICAL STREET michigan Pollution emergency alerting system, in Michigan at 1-400-292-4706 or out of state at 817-373-7860 and the National Response Day. 2659 ATSCONCTO AMERICA, DURRERS GROVE, TE 60515 (630)964-2300 Generator's Phone (5. Transporter 1 Company Name FIGURE HERESTER SEPTIMEN US EPA ID Number 7. Transporter 2 Company Name **US EPA ID Number** DZINGA TRANSFORTATION SYSTEMS 11.D994775049 9. Designated Facility Name and Site Address 10. US EPA ID Number MICHIGAN RECOVERY SYSTEMS. INC 36345 UN BORN PR. MIDDOOD 175844 Facility & Phy Rimarus, Mi ani74 12.Containers 11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). Total Unit Type No. Quantity Wv/vo E BU BEST FLAMMER FLOOD, N.O.S. GLUBBATT N AND OFFICIALLY, THOMAS ADDITION W 0055 E Edministry In To HOOK R A T O b. C d. 15. Special Handling Instructions and Additional Information Exergency Contact # (630)964-2300 16, GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are acked, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulation If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toutity of waste generated to the degree I in the economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which present and future threat to human health and the environment; OR; If I am a small quantity generator, I have made a good faith effort to mink generation and select the best waste management method that is available to me and that I can afford. solty of waste generated to the degree I have itly available to me which minimizes the mize my west Date Month Day Printed/Typed Name Signature^ Year . , 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Year Signature BE REPORTED TO W THOMOS 18. Transporter 2 Acknowledgement of Requipt of Materials Date Month Day Printed/Typed Name Year Signature 19. Discrepancy Indication Space SPILLS I MOR 000353 20. Facility Owner or Operator: Certification of receipt of hezardous materials covered by this manifest except as noted in team 19. Date Year Printed/Typed Name Signature Month Day

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Federal and State regulations provide for additional requirements, not rock ded in these instructions, regarding the use and management of this form (40CFR, 4870 or Federal), Politically

Advisions, information such as "Rejected Load Procedured", state an first of individual state in fact forms, stop, can be obtained by contacting the Mich gain Department of the fact of the fact of the William Register Management Division's (WMD) Internet Home Page at http://www.nbg.shree.com/cushor-object/factories/contactine-Management Unit directly: at (517) 373-1217. Continuation shall see also into applicable of the Management Unit directly: at (517) 373-1217.

Complete as trems on the member. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Item 1. Emerthe generator's U.S. EPA twelve digit identification number. For Part 121 manifested originates where a generator ocea not have a U.S. EPA assigned number, a visit assigned number as the colored of the waste must enter a unique two digit manifest document number (a.g. 90001).

Item 2. Fager umber 1 of tishould be recorded unless a continuation of election of which depends out number of pages, counting the initial manifest page, should be shown

Rem 3. Enter the name of the generator and the malling address to which we man fost about the left if the address of the elle at which the waste was placed into transport to the continuous form the doubt tyle address record the are address in terms.

Item 4. Enter a telephone nutriter (notining assistance) where an instruction p(n) in a generator can be reacted in the event of an other g(n) and don't g(n) the original g(n) and g(n).

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table 8. Enter the company mane and site address of the facility designated to receive the waste issted on this manifest.

Item 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in item 9. For Part 121 manifested expressive where a designated facility does not have a U.S. EPA assigned number, a state assigned number a to be used.

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LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

XI Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

	Morey Corp.	 		tor USEPA ID No	
Generator Address	s_ 2659 Wiscon	sin Av.	Downers Gro	ve, IL. 6051	5
State Manifest No.	~J 7800	411	Manife	st Doc. No. 0	0481
			Instructions		
In Column 1 id	lentify <u>all</u> USEPA hazard	lous waste co	des that apply to th	is waste shipment.	
In Column 2, c	hoose the appropriate tre	eatability gro	oup: Non-Wastewa	ter (NWW) or Wasto	ewater (WW).
					ated Soil" or "Debris" if the
			=	- ·	(c) (soil) or 268.45 (debris).
_	ircle the letter of the app		• •		
	or F001-F005, F039, D00 Guide–LDR/UHC Consti				he Reference Number(s) from the
•			•		im your waste stream,
Manifest	1.	2.	3.	4.	5. REFERENCE NUMBER(S)
	1. USEPA HAZARDOUS WASTE			4. HOW MUST THE WASTE BE MANAGED?	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039,
Manifest	1. USEPA HAZARDOUS	2. NWW or	3.	4. HOW MUST THE WASTE BE MANAGED? (Circle one) B C D E F G H I J K L M S	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste.
Manifest Line Item	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one) B C D E F G H I J K L M S A B C D E F G II I J K L M S	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039,
Manifest Line Item	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	A. HOW MUST THE WASTE BE MANAGED? (Circle one) B C D E F G H I J K L M S A B C D E F G II I J K L	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039,

HOW MUST THE WASTE BE MANAGED?

Title

Date

For S, circle the appropriate response for the 3 italicized options:

Generator Signature ______

Printed Name FRED

MOR 000355

5.16.00

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A.

(CIRCLE ONE)

(CIRCLE ONE)

(CIRCLE ONE)

(CIRCLE ONE)

(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, includin; the possibility of fine and imprisonment.

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
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- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
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ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-606-272-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-608-434-8602 24 HOURS PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994, as amended,

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

ease print or type			Form App	roved. OMB No.	. 2050-0039
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. 11 DAN 1941 (14)	Manifest Document No.	2 Page 1 of	Information is not req	in the shaded areas uired by Federal
3. Generator's Name and Mailing Addres MCIREY CORP. [文章: 14] ((14)) (11) ((15)) 4. Generator's Phone ()	SS		M		The state of the s
5. Transporter 1 Company Name (TIP) FT WHETH THE LIGHT WE PUTE FO	6. US	EPA ID Number			
7. Transporter 2. Company Name 在11年的第三日中的中国的中国中国中国		EPA (D Number 1998 1775049	EST NO.		Fabruary Commission (Commission Commission C
9. Designated Facility Name and Site Ad b) 411.00034 The IPERIFERIN	ddress 10. US	EPA ID Number		नारिक कर	
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11. US DOT Description (including Proper HM ID NUMBE	Shipping Name, Hazard Class R).	s, and 12.Conta	ı_	13. 14 Total Un Jantity WA	n Zno z Zu
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15. Special Handling Instructions and Addition of the state of the sta	that the contents of this consignrespects in proper condition for transpel have a program in place to red	ort by highway according to i ice: the volume and toxicil f treatment, storage, or d	applicable interna ly of waste gen labosal current!	itional and nation erated to the di or evallable to i	al government regulations legree I have determined me which minimizes the
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19. Discrepancy Indication Space					
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Additional information such as "Rejected Load Procedures", state essigner identificant. feet forms, etc. can be obtained by contacting the Michigan Department. (E. 17 mms.) > 100 by (MCD). Waste Management Division's (WMO) internet Home Page at http://www.doc.idia.edn.com.com.ac. contact the Menifest Unit directly at (517) 373-1217. Communion sheets we list study in 1515. MISC

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INTERNATIONAL SHIPMENTS

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Generator Approval Notification

July 29, 1999

Customer: ENVIRONMENTAL WASTE SRVCS.

Fax: (630) 365-3112

FRED PFEIFFER MOREY CORP. 2659 WISCONSIN AVE. DOWNERS GROVE, IL 60515

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the EQ environmental protection facility identified below and ensures that this facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or dispose of the waste material(s).

EQ FACILITY: Michigan Disposal Waste Treatment Plant (MID000724831) 49350 North I-94 Service Drive, Belleville, Michigan 48111

Approval Number: 072999MK

Generator EPA ID #: ILD025415266 Approved Container: DRUM Expires On: 7/28/2000

Waste Common Name: SIGMA S-460 CONTAMINATED SOIL

Waste Code: Primary-000M Secondary-Comments: NO FREE LIQUIDS ALLOWED

The Approval(s) listed above are based upon information supplied to EQ by your company. The generator is ultimately responsible for the accuracy and completeness of the characterization information provided and other information that was provided during the technical approval process. The generator must notify the EQ Customer Satisfaction Department immediately upon knowledge of any changes to this information.

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from EQ on future business will be valid for a period of one (1) year from the date of issuance. Within 60 days of the Approval Expiration Date, you will be notified of the requirements for recertification. Please contact our Scheduling Department at 1-800-TRKTRAC (875-8722) to coordinate delivery of your waste stream(s).

If you have any questions, please call us toll free at 1-800-KWALITY (592-5489)

YOUR BUSINESS. OUR SOLUTIONS. A PRODUCTIVE PARTNERSHIP,

MOR 000359

Rev. 1/99 Page 1 of 1 Form 1028



all spills must be reported to the Michidan Pollution Emergency Alerting Bystem, in Michidan at 1.400-252-4708 or but of state at 517-373-7840 and the National Response Center at 1-400-424-862 24 hours per day.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

3/16/99

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and Part 121 of Act 451, 1994, as amended

Failure to file may aubject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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Rem 9. Enter the company name and site adoress of the facility designated to receive the waste lotted on the manifest.

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INTERNATIONAL SHIPMENTS

Universal Waste

Pecycled, Recalmed, Used or Reused

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LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending &
Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

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(CIRCLE ONE)
(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE, FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY, HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- H. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- 1. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K. THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- L. THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOYE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.



WASTE MANAGEMENT DIVISION ENVIRONMENTAL QUALITY **MICHIGAN DEPARTMENT OF**

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and Part 121 of Act 451, 1994, as

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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Ш	10	GENERATOR'S CERTIFICATION: I hereby declare classified, packed, marked, and labeled, and are in all re	that the contents of	this consignment are	fully and accurat	ely described	above by prop	or shipping name and ar
\parallel	١	If I am a large quantity generator, I certify that I	have a program in rejected the practical	place to reduce the W le method of treatmer	olume and toxicit nt. storage, or di	y of wasta ge sposel current	nersced to the fy available to	me which minimizes th
11		present and future threat to human health and i generation and select the best waste management met	the environment; DR;	if I am a small quan	tity generator, I	have made a	good failth eff	ort to minimize my wast Date
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TRANSPORTER FACILITY								·
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General Instructions

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Fig. 3. And the integral of made a premishing and transporters of hazardous waste and owners or to the individual switches with the probability postal tackings to use this form (9700-22) and, if sing to the Lightmation sheet (Form 6700-22A) for poth intervand a trastate transportation of hazardcris withte an defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111); State regulations a so require the use of this manifest for all regulated property of flourd industrial where as required in Part L 41 - 451 c 1934 ha whenoed (Fat 121).

Faderal and State regulations provide for additional requirements, not included in these instrucbons, regarding the use and management of this form (40CFR, 49CFR, Part 111, Part 121)

Additional information such as "Rejected Load Procedures", state assigned identification numbers, mani-Austrona, Frommon and a service to the first of the Michigan Department of Environmental Guarty (MCEG), Visite Management Division's (WMD) Internet Home Page at: http://www.dog.state.mi.us/wmd.or.you.may contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MOEQ

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

from 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manufested shipments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001)

from 2. Page number 1 of 1 should be recorded unless a continuation sheet is used, in which case the total number of pages, counting the initial manifest page, should be shown

from 3. Enter the name of the generator and the mailing address to which the maillest should be mailed. If the address of the site at which the waste was placed into transportation is different from the mailing address record the are address in Item J.

Item 4. Enter a telephone number (hick ang erea doute) where an eletrorized agent of the gonerator can be readiled in the event of an energe L , and or a partial or librar rejected load

NOTE: The 24 hour emergency of one hundry negative for a harandous materials, stopping paper may be enferent from the generator's phone number.

ftem S. Enter the company hams of the first transporter who will transport the waste

Item 6. Enter the transporter's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a transporter. Yes not have a C.S. EPA, assigned number a state assigned number is to be used

Item 7. If using a second transitione least this community name

From 8. Enter the second to the increase 1930 1935 is using digg. Beneficie on a limiter. For Payings much based aromates where a home of the doubling chare a D.O. PEA contigued much will also pay a second

NOTE: If more than two transporters are used, the generator or turd transporter shall and also a continuation sheet. In item L of the continuation sheet, the generator/transporter must copy the State multilest droument number issed in Item 4. Skery transcorr, pinpully used between the generative and the designed section to the control of the contro drivers working for one trensporter. Rem. 2 is to be changed to reflect the added page(s). The function sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams

from 9. Enter the company name and site address of the facility designated to receive the wa this manifest

Item 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested ehipments where a designated facility dose not have a U.S. EPA assigned number, a state assigned number is to be used.

Nom 11. Eliner an Xim the HM trux in the wasteries a haze dous material regulated by U.S. DOT (See 49) CFB 1777 on an including the 6 GC stropping devices on, including Proper Shoping Name. Huzard Control of Council of territoria. Including group for each waste as dented as 40 CFR 172-760 to a council of territoria. Shoping stropping on a council of territoria shoping group for each waste as dented as 40 CFR 172-760 to a council of territoria. relations to like many at the above mode and appropriate should describe to the waste 63 to 141.

from 12. Either the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry.

DM = Metal drums, berrels, keus

DW = Wooden trum, perrels, segs

DF + F2-irboard or pluster clume, barrels, kegs D1 = Gump Truck

TP . Tairs portage

TT = Cargo tance (facilities

TC = Tank cars

Colorders
Colorders
Colorders carrors, cesen (noticing rospes)

GW = Wooden boxen, cartons, cases

Of a Filter in plastic hores, partor a cavas

6A # Burley, ploth, paneriolautic bags

has in 12. Ender him local year-keys or waster diseasited on each kine. Do not use december or fractions

Nom-14. Entern a appropriation obtains the trial unit of measure sisted below

G - Gallons (koulds only)

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tiem 15. The generator may use this space to indicate special transportation, treatment, storage or one half information innconvExport information as noted in the "International Shipment" instructions Section of the belief or the bare

Item 16. The general or must read, event in since hame, eigh and date the bandication statement

here 17. Whith the haine of the person accepting the waste on behalf of the first transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of report

from 18. If applicable, print the name of the person accepting the waste on behalf of the second trans-20 (8). That is son must acknowledge acceptance of the waste described on the mainlest by signing and trianing the date of receipt

item 19. An authorized representative of the designated (or a ternate) facility must note in this spece any discrepancy in the waste scionlent

flem 20. Print the name of the person accepting the waste on behelf of the designated facility. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt

NOTE: MDEG "Rejected Load Procedures" provides guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

from A. A preprinted State manifest document number.

item B. H. May be required by other states

item it. For nezardous wastes, enter the appropriate waste numbers found in R229 9212 through R299 9214 of Fart 111 and 40 CFR 261 Subparts C and D. If more than one waste number is required to appropriately identify the waste, evitor the additions; numbers in liam ... In severing the most appropriate appropriately the my the water, while the administration before many in section mechanisms processes, which is useful active to useful active waste (nothing P and active t). U (tooc), K (5),6 of , 2 viries), non-active t (non-specific sources), and D (characteristic). State tregulated wastes fullow the same hierarchy as federally regulated wastes. For Part 121 wastes which are not hazardous wilstes enter the appropriate code safed below

Milet Schools	607L
Stormaceurcal	G14L
Urathacitae Uni	D17L
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Household Generated	н
Recycled Precious Metals	P
Recycled, Reclaimed, Used or Reused	R
Universal Weste	υ

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The nary exporter must identify the point of departure. From the United States."

Importe: Shipmens of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA Uniform Hazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, must complete the manifest as required in E299 9310.1

fill ranks arrains of hizzardous whistly shipments must deliver a body of the manifest to U.S. Customs when importing or exporting the waste across U.S. bordors. Record the foreign waste manifest document nuniper in Item 15

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter eigns and dates manifest) carrove the white and gold banded copies and give the remainder of the manifest copies to the trans-porter. Send the white copy to MOEQ no later than the tenth day of the month following the shipment. For shipments of wastes being transported to a designated facility outside of Michigan when an out-of-state manifest is used, mail to the MDEQ a photocopy of the manifest when the shipment is placed into transou tation and mail a photocopy of the second penerator manifest copy, when received

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility eighs and dates the manifest the carrany banded copy will be returned to you. If more than one transporter is used the anifest is to be copied and supplied to the previous transporter admonifeding the receipt of the shipment by the next transporter. The canary banded copy stays with the manifest until the arigment reaches. the designated facility

DESIGNATED FACILITY: Upon signing and dating the manifest as received, give the canary bended copy to the transporter. Return the blue banded copy to the generator. Mali the pink banded copy to the ME EQ no later than the 10th day of the month following receipt of snipment.

ADDRESS ALL INDEQ MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30036 LANSING MI 48909-7538

The number exposition between two this tradection of information is estimated to average 31 invites for generators, 16 minutes for transporters, and 16 minutes for treatment, storage, and disposal facilities. The funder associated with reading the regulations as for this uplead on or information is estimated to average 6 minutes for generators, 6 minutes for transporters, and 6 minutes for treatment, storage, and disposal facilities. The burden associated with reading the regulations as estimated at 1 from and 15 minutes annually. Burden means the lotal time, effort, or financial, resources expended by persons to generate, maintain, return, or disclose or provide information to or for a Federal agency.

An agency may not conduct or allowing and a person is ner required to respond to, a collection of information unless it disciplys a currently valid OMB control numbers for EPA's regulations are listed in 40 CFR Part 9 wird 46 CFR Chispher 15. Send comments regarding these burden statements or any other respect of this collection, including suggestions for reducing the burden, including through use of automated collection techniques to the Director, OPPE Requireding Information Division, U.S. Environmental Protection Agency (2.37), 401 M St., S.W., Weathington, D.C., 20460 and to the Office of Information and Regulatory Affairs. Office of Management and Budget, Attention: Desk Officer for EPA, 725 17th Street, N.W., Washington, D.C., 20506, Include the OMB control number in any correspondence.

ASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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General Instructions

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Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 44CFR, 144.5 ± 1 , 25.1 (21)

Additional information such as "Rejected Load Procedures", state assigned identification numbers, manifest forms, etc., can be obtained by contacting the Mitchigan Department of Environmental Quality (MMD) Neste Management Division's (WMD) Internet Home Page at: http://www.deq state millushind or your portact the Manifest Unit directly et (517) 373-1217. Continuation sheets are not supplied by MDEQ

Complete all flems on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Rem 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shiptherits where a generator dose not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number 4e c 00001).

Item 2. Page number 1 of 1 should be recorded unless a communion sheet is used in what, case the total number of pages, counting the initial manifest page, should be shown

Rem 3. Enter the name of the generator and the mailing address to which the maintest of word be mailed if the address of the site at which the waste was placed into transportant rule of herent from the multiple address in tem 1.

Rem 4. Enter a telephone manuer $\phi : \phi = g$ area is uso, who on authorized agenciation generator can be reached in the event of an emerge ϕ , and/or a paint alor usual rejected lost.

NOTE: The 24 hour emerge in a choine of cone of the red for a hour source in denals one gang paper may be different from the generator size with a red cone.

Item 5. Enter the company come of the Sisting isporter who so three-sport the waste

Item 6. Enter the transporters U.S. STA, twelve digit identification number. For Part 12t in unlested stransporters to social action (social passignes) in white it transports, in weight additionally a subject to make a scale acting out for our parties to be used.

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Item 8. Enter the second thin schools (18.89) Into De distribution institution in For Part 121 monifested shipments where a transporter oward for over a late, but Andres given hands a various respirator number is to be used.

NOTE: If more than two transporters we used to a generator alto to balloup terished in the surface for interest. In item 10 of the confination sheet, the generator/transporter must copy the State may be the distinct ment number itside in item A 12 or 10 not on the most stary used takened the general rain in me designed facility (except for intermediate rain or to be used to be weether and the designated facility) must be listed. In a large term used be weether and to a rain or nary demonst and the designated facility) must be listed. In a large termination of the designation of the facility in the facility of the property of the 12 or to be changed to reflect the added page sp. Continuation sheets must be appropriately completed in their entirety and property distributed. Continuation sheets may not be used to list additional weather streams.

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Barn 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in frem 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

from 11 if the ship is the HM box of the waster's a hazard wis praterial regulated by U.S. DOT (Gee 49 for the ship is the ship is the ship is TOT), which is the ship is the ship is Tot of the ship is Hazard for which is the ship is North and publishing group to each waste as the wheel in A9 OFF1 172 for it. The ship is the ship

Rem 12. Enter the number of conteiners for each waste and the appropriate abbreviations listed below for the type of conteiner. Each conteiner type requires separate entry.

Disk Meral drums berreis, kegs

DvV a Vegoden drum, barrefu kegs

DF = Sitterboard or plastic drums, banels, kegs

DT + Dump Truck

TP - Tains, portuble

form 15. The generator may use this space to indicate special transportation disprays information in motivities port information as noted in the "International Section is till an econocided even

Item 16. The generator must read, print his her name, sign and date the cortification (L.

Item 17. Fruit the name of the person accepting the waste on behalf of the first transporter. 1 — xirson must acknowledge acceptance of the waste described on the manifest by signing and entering the date of (scenar).

Rem 18. If applicable, print the name of the person accepting the waste on behalf of the second transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and enviring the date of receipt.

Rem 19. An authorized representative of the designated (or a ternate) facility must note in the space any decrepancy in the waste shomers.

item 20. Print the name of the person accepting the waste on behalf of the designated facility. That believe must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt.

NOTE: MDEO "Rejected Load Procedures" provides guidence for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

Item A. A precented State manifest document number.

Item B - H. May be required by other states

Item 1. For hazardous wastes, enter the appropriate waste numbers found in R229 9212 through R299 9214 of Paul 111 and 40 CFR 261 Supparts C and D. It more than one waste number is required to appropriately identify the waste, enter the additional numbers in Item U. In selecting the most appropriate waste number the following hierarchy must be used, abuse waste (notuding P and abuse F). U (toke), K ((panific sources), non abuse F (non-specific sources) and D (characteristic). State irregulated wastes which example hierarchy as federally regulated wastes. For Fair 121 wastes which are not hazardous which exists in the appropriate code is redibered before.

Priked Solverts	007L
Principles to self-cell	014L
Charlic buser Oil	2174
fluoriaits and system Souble Oils	5150
Other GaldGracine is item 11 or item in	02*1
e B	12.1.
1. /	121
Litral, wastes (Describe softer on or credenis)	
Assentage.	CSUL

its mode. Ser all mors are to use this space mint him sits addition, it different him hip mailing address noted in this mode, and consist waste as noted in Item Lof these mode, and the service of the service of the service of a puroval of commonging authority by as required in R299 9304(5).

If emilk is ideally specific codes which appear

Teams: ViEnergy Recovery	١.
Carrier of Hally Examps Small Quartity General 2	С
Emergency Response Cleanup	Ε
Household Generated	н
Recycled Precious Metals	P
Recycled, Reclaimed, Used or Reused	R
Universal Waste	U

NTERNATIONAL SHIPMENTS

Exports-Transporters must eign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure from the United States.*

imports. Shoments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA indigent ribrardous Waste Manifest. Any person functioning as the U.S. importer, as defined in Part 111, noun complete the manifest as required in R299 9310.*

*Transplaints of nazardous waste shipments must deliver a copy of the maintest to U.S. Customs when importing or exporting the waste across U.S. borders. Record the foreign waste maintest document number in item 15.

MANUFEST DISTRIBUTION

GENERATOR: Upon plecing the waste into transportation (first transporter signs and dates manifest) remove the white and gold bended cooles and give the remainder of the manifest copies to the transporter. Send the white copy to MDEO no later than the tenth day of the month following the snipment. For shipments of wasters being transported to a designated facility outside of Michigan when an out-of-state manifest is used, mail to the MDEO a photocopy of the manifest is used, mail to the MDEO a photocopy of the manifest when the shipment is placed into trans-

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1	ele0	ni beton sa sqepxe selinem sin	is materials covered by the	Operator: Certification of receipt of hazardou	20. Facility Owner or	CENTER A
	•				5	25



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994, as amended.

Fallure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

j	A	0111 01111 111 2A110000	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in is not requilaw.	the shaded areas red by Federal	
MESPONSE		3. Generator's Name and Mailing Address MUREY CORP. COST 44 (SCORP). (14 147/EMR). (16/44/E)		1 - 4,17 - 19	家 机压。	EKKIK.	To thin por	
MAIIONAL ME		4. Generator's Phone () 5. Transporter 1 Company Name CHVIRGHMETHIR VICES	6. US EPA IO	6. US EPA ID Number		Cesto contrata Danimportuo		
		7. Transporter 2 Company Name 02 INSA 18645PORTATION SYSTEM	8. US EPA ID	Number 775849				
aux au		9. Designated Facility Name and Site Add MICHIGALLY COVERS SYSTEMS. II 36/545 WHILL BURGERS.	HC	IO. US EPA ID Number 제1 (제상대한그룹라시작		CHRISTINA PE		
		Right Lips, MI 484.74	L	<u>L</u>		in minimum is a second of the		
	!	11. US DOT Description (including Proper S HM ID NUMBER	Shipping Name, Hazard Class, and R).	12.Conta No.	11	13. 14. otal Unit antity Wt/Vol	一种的	
	E 2 E R	POSTERIOR FOR MINISTER STRAIGHT STRAIGH	OTD, N.O.S. (ALIPHOTIC ONS)	ool	in O.	12-1		
5	A 7 0 R	b.					が発展して	
		с.						
		d.						
		15. Special Handling Instructions and Addit						
		18. GENERATOR'S CERTIFICATION: I hereby declare cleanfed, pecked, marked, and labeled, and are in all n if I am a large quantity generator, I certify that	that the contents of this consignment are	fully, and accurate the property according to a	aly described a	bove by proper al	hipping name and are government regulations.	
		to be economically practicable and that I have present and future threat to human health and generation and select the best waste management met	selected the practicable method of treatm the environment; OR; if I am a small que	ent, storage, or di intity generator, i	sposal current	y available to me good faith effort t	o minimize my waste Date	
ğ	V	Printed/Typed Name	Signatura	1 P.S	ell.	<u> </u>	Month Qay Year	
		17. Transporter 1 Acknowledgement of Rec			//		Date Month Day Yeas	
TOUR	3 (Printed Typed Name Signature Signature						
7 2		18. Transporter 2 Acknowledgement of Reco Printed/Typed Name	eipt of Materials Signature			<u> </u>	Date Month Day Year	
0424-00		19. Discrepancy Indication Space	O.Brieror a					
CENTER AT 1-000-124-0002 24 HOURS PER DAY.	19. Discrepancy Indication Space							
CEN		20. Facility Owner or Operator: Certification of Item 19.	of receipt of hazardous materials cov	ered by this ma	nifest except	as noted in	Date	
		Printed/Typed Name	Signature		-,		Month Day Year	
1	١		J					

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Federal and State regislations provide for additional requirements, not included in these instructions, regarding the use and management of this form (SOCFR), and red 30, 1981, Park Nove.

Additional knomation such as "Rejected Load Procedures", state with the procedures of the procedures of the procedures of the procedure with the procedure of t

Complete all items on the maintest. Enter "NIA" if any liam does not as a victorial tesse items that may be readed later blank, such as second transporter.

Item 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested ship ments where a generator does not have a U.S. EPA assigned number. Fision easigned number must be obtained and used. The generator of the weate must enter a unique tive of it manifest obcument number of a 2000th.

Rum 2. Page number 1 of 1 should be recorded unless a continuation of low outside for what of lie indicase number of pages, counting the troub manifest pages, should be shown.

Rem 3. Error the name of the generator and the malling address to which the maintest should be m_i (e.g. If the address of the situat which the waste was placed into transport the situation of the situation

Remid. Enter a talephone rightpub (n. 170 glasses and an enter in the new Augustic (n. 18) tenerator den be reached in the event of at a mag. (n. 2) d'or nour trolla propriet can

NOTE: The 24 hour emergings of the instruction of the analysis of the arrival production the generators provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the contraction of the arrival provided the arrival provided the contraction of the arrival provided the contraction of the arrival provided the arriva

Pem 5. Enter the company is in Amic from a curonic which is a way of the variety

Rem 6. Enter the transporter's U.S. EPA threeve don't intentification number. For Family, in our installation statements where a transporter's entering to 1.2 for 1.2 for 1.2 for 1.2 for 1.3

hem 7. If using a second transcripter in the control of the second transcripter.

Item 8. Enter the second biomissiste (1.10 TOA 1.00) is given a last promise to be a consistent of the constraint of the

NOTE: If more then two trees is a local set of the consistency of the factor of the consistency of the consi

Rem 9. Enter the company cause and site address of the rapility designs to receive the waste listert on the manifest.

Item 10. Enter the U.S. EPA twente digit identification number for the designateul facility described in Item. 9. For Part 121 manifested enigments where a designated facility closs not have a U.S. EPA assigned number, a state caseigned number a to be used.

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Rem 12. Esset the number of conferns 6 Kill MacRiy aste and the expropriate expirer lations listed below for the type of conferer. Each conterner type requires expandite entry.

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INTERNATIONAL SHIPMENTS

Exports: Transpuriers must sign and enter the date the waste reward the United States in Ners to the primary exporter must identify the point of departure. From the United States 1.

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LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Name	Morey Corp.	Generator USEPA ID No. ILD025415266
Generator Address	2659 Wisconsin Av.	Downers Grove, IL. 60515
State Manifest No	m = 1199432	Manifest Doc. No. 444) L

INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. IIOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(5) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D001	NWW D WW	High TOC	ABCDEF GHIJKL MS	
11.B		O WWW		A B C D E F G H I J K L M S	
11.C		□ NWW		ABCDEF GHIJKL MS	
11.D		□ www □ ww		ABCDEF GHIJKL MS	

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my						
knowledge and information.		•				
Generator Signature Ful Bleffe	Title		_			
Printed Name FREA PEEFFER	Date	8.K.99	_			

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

MOR 000370

S. THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A (CIRCLE ONE)

(CIRCLE ONE)

(CIRCLE ONE)

(CIRCLE ONE)

(CIRCLE ONE)

(CIRCLE ONE)

(CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, includin; the possibility of fine and imprisonment.

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 26th Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE, FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY, HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- IL THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- I. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K. THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- L. THIS DECHARACTERIZED WASTE: CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOVE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

LDR Pige 2 (691)



Michigan Recovery Systems, Inc.



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NOV 0 9 1998

CERTIFICATION OF PROCESSING THE MOREY CORP.

Michigan Recovery Systems, Inc. certifies that the material associated with the shipment received from Morey Corp., Downers Grove, IL, has been processed as described below:

IDENTIFICATION NUMBER DESCRIPTION

PROCESS DATE

TYPE OF PROCESS

MI 4901589 a.)

Waste Flammable

8/17/98

Fuel Blend

MICHIGAN RECOVERY SYSTEMS

Title: Manifest Coordinator

Date: November 30, 1998

MOR 000372

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE

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Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

amended.

Form Approved. OMB No. 2050-0039 Please print or type 1. Generator's US EPA ID No. Manifest Document No 2. Page 1 Information in the shaded areas UNIFORM HAZARDOUS is not required by Federal WASTE MANIFEST 01589 D825415266 Generator's Name and Mailing Address State Manifest Document Number MI 4901589 Morey Corp NATIONAL RESPONSE 2659 WISCONSIN AVENUE, DOWNERS GROVE, IL 60515 (630) 964-2300 B State Cenerator's In the 1973 Constitution of the 1975 Constitution o Generator's Phone (5 Transporter 1 Company Name ENVIRONMENTAL WASTE SERVICES US EPA ID Number C. State Transporter al Dato 700 At 45 Disparisporters Proper (630) 365-1180 US EPA ID Number 7. Transporter 2 Company Name State/fransporter s/IDN-F1874-> OR OUT OF STATE AT 517-373-7860 AND THE ILD984775049 OZINGA TRANSPORTATION SYSTEMS Furnisporter's Phone 9. Designated Facility Name and Site Address 10. US EPA ID Number State Facility's ID free state of the last state MICHIGAN RECOVERY SYSTEMS, INC 36345 VAN BORN RD. ROMULUS, MI 48174 MID060975844 12.Containers Waste 11. US DOT Description (including Proper Shipping Name, Hazard Class, and Total Unit IĎ NUMBER). No Type No. Quantity W2Vbl D001 a. RQ WASTE FLAMMABLE LIQUID, AND AROMATIC HYDROCARBONS) N.O.S. (ALIPHATIC X NO05S 001 BOW BY TO A TO 3 UN1993 PG II (D001) b. T 0 IN MICHIGAN AT 1-800-292-4706 R C. 4.40. C. 180.40. đ. Additional Descriptions for Materials Listed MICHIDAN POLLUTION EMENGENCY ALERTING SYSTEM, DAY. FILUX: (032217D) Dee 15. Special Handling Instructions and Additional Information THE MOREY Emergency Contact # (630)964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name Signature 17. Transporter 1 Acknowledgement of Receipt of Materials TRANSPORTER Printed/Typed Signature ALL SPILLS MUST BE REPORTED TO CENTER AT 1-808-424-8802 24 HOURS Date 18. Transporter 2 Acknowledgement of Receipt of Maj Printed/Typed Name Signature BILLY 19. Discrepancy Indication Space FACI MOR 000373 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Printed/Typed Name Signature

MICHIGAN RECOVERY SYSTEMS 36345 Van Born Rd., Romulus, MI 48174 An EQ COMPANY

FAX COVER SHEET

TO: Y Lil At: Mary Corp. Fax: 630-980-7484 Phone: 630-980-7484	FROM: Sherry Phillips PHONE: 313-326-3100 FAX: 313-326-9375
TODAY'S DATE: 11)4 98	TIME: 5:07 pm # OF PAGES: 2
COMMENTS:	÷
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THE MOREY CUAR.



Michigan Recovery Systems, Inc.



CERTIFICATION OF PROCESSING

Michigan Recovery Systems, Inc. certifies that the material associated with the shipment received from Morey Corp., Downers Grove, IL, has been processed as described below:

IDENTIFICATION NUMBER DESCRIPTION

PROCESS DATE

TYPE OF PROCESS

MI 4901589 a.)

Waste Flammable

8/17/98

Fuel Blend

MICHIGAN RECOVERY SYSTEMS

Name__

Title: Manifest Coordinator

Date: November 30, 1998

RECEIVED

NOV 0 5 1998

THE MOREY CORP.



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039 Please print or type 1. Generator's US EPA ID No. Manifest Information in the shaded areas UNIFORM HAZARDOUS 2 Page 1 Document No 例 144 is not required by Federal **WASTE MANIFEST** LD025415266 Generator's Name and Mailing Address State Manifestabocament Number exe MOREY CORP. MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4708 OR OUT OF STATE AT S17-372-7880 AND THE NATIONAL RESPONSE Day, รี้เรีย มารถอักราย ลขยายน , courtes grove. บ 60515 16301964 เฮเซน Generator's Phone (5. Transporter 1 Company Name ENVIRONMENTAL MASTE SERVICES 6. US EPA ID Number 7. Transporter 2 Company Name US EPA ID Number ILD984775049 UZINGA TRANSFORTATION SYSTEMS 9. Designated Facility Name and Site Address 10 US EPA ID Number Nichtigal recovery systems. The 36345 Pan Roph RD. MID06097584+ ROME US. MI 48174 12.Containers 13 11. US DOT Description (including Proper Shipping Name, Hazard Class, and Total IĎ NUMBER). No Type Quantity M/40 to uddie Flowmable Libuto. Arts repment to terosocarbons N. O. S. GREATTE N 00055 001 E 5 (RH993 PO 11 (DAM)) R A b 7 0 14 Table 5-C. d. 15. Special Handling Instructions and Additional Information Fuergency Contact # (630)364 2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name Signature . . 11 11 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Types Signature, *TYOMAS* MUST BE REPORTED TO 1-800-424-8802 24 HOURS 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature DILLY 270 L 19. Discrepancy Indication Space ALL SPILLS I CENTER AT 1 Ĉ MOR 000376 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Date Month Day Printed/Typed Name CO 3 - 166 ...

General Instructions

Read all natives and hetere completing this form. This form has been discipled use on a 10-2 for (a to) appealization riputer annian action point per may also be used it pressions in the Consule and ones ale eg.big.

Fallergi, al distoto regulations require generalitis and transporter out hozpirous would and CATERS. ocerators of caractoria waste treatment, storage, and disposal fabilities to use this form (8700-22) and, if necessary, the continuation sheet (Form 8700-22A) for both inter- and intrastate transportation of hazardcus waste as defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111). State ingulations also require the use of this manifest for all regulated shipments of liquid industrial waste as recoverd in Part 121 of Act 451 of 1994, as amended (Part 121)

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 49CFR, Part 111, Part 121)

Additional information such as "Rejected Load Procedures", state assigned, distribution numbers, manitest forme, etc., can be obtained by contacting the Michigan Department of Environmental Quality (MDEQ).

Waste Miniagement Division's (WMD) Internet Home Page at: http://www.deg.state.mi.ut:wmd.or.you.may.

contact the Manifest Unit directly—at (517) 373-1217. Continuation sheets are not supplied by MDEQ.

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

item 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

ftem 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which case the total number of pages, counting the initial manifest page, should be shown

from 3. Enter the name of the generator and the malling address to which the manifest should be mailed. if the address of the size at which the waste was placed into transportation is different from the making address record the site address in item J.

from 4. Enter a telephone number (including area code) where an authorized agent of the generator can be reached in the event of an emergency and/or a partial or total rejected load

NOTE: The 24 hour emergency phone number required for a hazardous materials shipping paper may be different from the generator's phone number

from 5. Enter the company name of the first transporter who we transport the waste

Nem 6, Enter the transporters U.S. EPA tweive digit identification number. For Part 121 manifesters nants where a transporter does not have a U.S. EPA assigned in limber, a state assigned number is to be used.

Rem 7. If using a second transporter, enter the company harrie

Rem 8. Enter the second transporter's U.S. EPA, twelve digit identification number. The Plant 124 main ista where a transporter boes not have a U.S. EPA, assigned not ben a state assigned number is to be used

NOTE: if more than two transporters are used, the generator or third transporter shall init aim a contribution sheet. In sem L of the continuation sheet, the generator/transporter must copy the State manifest document number listed in from A. Every transport company used between the generative and the design of Recity (except for intermediate rail or parge bansporters used retween the initial rail or bange our ersion of the designated facility) must be listed. This is not intended to require multiple signatures for the volunt drivers working for one transporter. Item 2 is to be changed to reflect the added page(s). Continuation sheets must be appropriately completed in their entirety and properly distributed. Continuation sneets may not be used to list additional weste streams

Stem 8. Enter the company name and site address of the facility designated to receive the waste listed on this manif

from 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

from 11. Enter an X in the MM box, if the waste is a hazerdous materiel requilated by U.S. DOT (See 49 CFR 172). Enter the required U.S. DOT shipping description, including Proper Shipping Name. Hazard Class or Division, ID Number (UN/NA), and pecking group for each waste as, dentified in 49 CFR 172 Additional information may also be required in this space, including technical name and reportable quentity references. For only Part 121 regulated wastes include an appropriate enipping description for the waste

from 12. Enter the number of containers for each waste and the appropriate abbreviations I sted below for are type of container. Each container type requires separate entry

DV - Metal drums, berreis, keas

DW - Wooden drum, barrels, kegs

DF - Fiberboard or plastic drums, parrels, kegs

CT - Dumo Truck

TP = Tanks, porable

TT - Cargo tanks (tank trucks) TC . Tank care

CY = Cylindera

CM = Metal boxes, cartons, cases (including roll-offs)

CW = Wooden boxes, cartons, cases

CF = Fiber or plastic boxes, cartons cases

BA - Burtop, cioth, paper/plastic bags

ttern 13. Enter the total quantity of waste described on each line. Do not use decimals or nactions

item 14. Enter the appropriate abbroviation for the unit of ineasure listed below

G = Gailtons (liquids only)

F . Pounds

T + Tons (2000 fb.)

Y + Cubic Yards L = Lifers (squids only)

K = Kiograms

N = Cubic maters

M = Metric tone (1000 kg)

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fram 15. The generator may use this space to indicate appoint transportation measured, storage or y Part 15. The year cause may see an assessment as noted in the "International Shament" instructions Section is in surfacional there. ۾ ^ي ۾

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from 17. Print the name of the partiest accopting the waste on behalf of the first transporter. That person must admoviedge acceptance of the waste described on the manifest by signing and entering the dire of roce of

Rem 18. If applicable, pint the name of the person according the waste on behalf of the second bank is life. That serson must acknowledge acceptance of the wuste described on the maintest by signing and entering the pate of recept

from 19. An authorized representative of the designated (or alternalle) facility must rigge in this space any discrepancy in the waste shipment.

item 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknow edge acceptance of the waste described on the manifest by signing and entering the date of receipt

NOTE: MDEG "Pejected Load Procedures" provides guidance for pertial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

Item A. A preprinted State manifest document number

Item B - H. May be required by other states

Item 1. For hazardous wastes, enter the appropriate waste numbers found in P229 9212 through Fi299 9214 of Part 111 and 40 CFR 261 Subparts Cland D. If more than one waste number is regulable. appropriately identify the waste, enter the additional numbers in Item J. In selecting the most appropriate waste number the following hierarchy must be used: acute weste (including P and acute F): U (toxic): Kinscholic sources), non-acute F (non-specific sources), and C (character stic): State (regulated wastes) 15 low the same nierarchy as federally regulated wastes. For Part 121 wastes which are not hazardous wastes enter the appropriate code Listed below.

Maint Solvents	007L
Et ain geeut caf	014L
Stankasia Ott	0175
Civilants and Water Solutio Oils	0.90
Prezi Cili Desti a ele la em 15 de rem Di	7271
<u>Brita</u>	002.
E-B	9765
Cinner wasted (Describe in train 11 or item 5)	0200
A Microsoft	J3

tem di Denoratora ane tri use to sistado for tolo ote admos di impre nimbro nicimalina i di elestrator in flord 3, additional waste codes, auctional description for air an 121 waste us noted in run il of these instructions, approval of commingling authority as required in P299 9304(6)

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Burned for Energy Rechiery	6
Conditionally Exempt Small Quartitry Generator	C
Emergency Response Cleanup	Ε
Household Generated	н
Recycled Precious Metals	P
Recycled, Reclaimed, Used or Reused	· A
Universal Waste	U

INTERNATIONAL SHIPMENTS

Exports: Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. from the United States.*

Imports. Shipments of hazardous and Part 121 regulated wastes must be annompanied by a U.S. EPA. Uniform Hazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111. must complete the manifest as required in R299.9310.*

*Transporters of hazardous waste shipments must deliver a copy of the manifest to U.S. Customs when importing or exporting the waste across U.S. borders. Record the foreign waste manifest ducument number in item 15

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates manifest) remove the white and gold banded copies and give the remainder of the marifest copies to the transporter. Send the white copy to MDEO no later than the tentil day of the month following the shipment. For shipments of westers being transported to a designated facility outside of Michigan when an out-of-state manifest is used, mail to the MDEG a photocopy of the manifest when the shipment is praced into transportation and mail a photocopy of the second generator manifest copy, when received

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility signs and dates the maintest, the canary banded copy will be returned to you. If more than one transporter is used, the maintest is to be copied and supplied to the previous transporter admowledging the receipt of the shippent by the next transporter. The canary banded copy stays with the manifest until the simpment reaches. the designated facility

DESIGNATED FACILITY: Upon signing and dating the manifest as received, give the canery banded cony to the transporter. Perun melthic can had copy to the generator. Mailtine pink barrown copy to the MDLO no later than the 10th day of the highlightening receipt of shipment.

ADDRESS ALL MDEQ MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

The public reporting burden for this collection of information is estimated to average 31 minutes for generators, 16 minutes for treasporters, and 16 minutes for treasment, storage and disposal facilities. The record keeping burden per response for this collection of information is estimated to average 6 minutes for generators, 6 minutes for treasporters, and 6 minutes for treasment, storage and disposal facilities. The burden associated with reading the regulations is estimated at 1 hour and 15 minutes annually. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency.

may not conduct or sponsor, and a person is not required to respond to, a collection of information unless a displays a currently valid OMB control number. The OMB numbers to: EPA's regulations are insted in 40 CFR Part 9 and 48 CPR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including through use of automated collection techniques to the Director, OPPE Regulatory Information Division, U.S. Environmental Protection Agency (2.37), 401 M St., S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Attains, Office of Management and Budget, Attention: Desk Officer for EPA, 725 17th Street, N.W., Washington, D.C. 20503. Include the OMB control number in any correspondence.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF WIRONMENTAL QUALITY

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Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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Form Approved. OMB No. 2050-0039 Please print or type Manifest 2. Page 1 1. Generator's US EPA ID No. UNIFORM HAZARDOUS Information in the shaded areas Document No is not required by Federal ILD025415266 **WASTE MANIFEST** 3 Generator's Name and Mailing Address State Manifest Document Number 2659 RISCORKIN AMERIKA, DOWNERS OFFICE. IL 64515 (6301 75+ 2300 Generator's Phone (ENGTHANACHMALL PY COUNTRACHE NAMED IN LICES 6. LUS ERA (RY) ember State Transportered to (mapoing) a 1700 7. Transporter 2 Company Name
197114(4) TENROPURING TON SYSTEMS YS FPA ID NURBBY F-Transporter and 9. Designated Facility Name and Site Address US EPA ID Number G:State Friends - In MICHIGAN PECTUEN SASTEMS, INC H Facility's Chonor - 1 E H1006-09758444 36 345 PAN HOPE RG. REMULIS. MI 48174 12.Containers 13 11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). Total Unit Quantity No Type Mt∕Vo BE OFFICE CLAMBARILE LIBERTY. 11, 11, 5, a. E ताम विकास के स्टिक्ट विस्तानिक G N e their ers for 11 commen A b. 0 C. d 15. Special Handling Instructions and Additional Information Emergency Court act # 16301964-2300 18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I, am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Day Printed/Typed Name Signature ŇΛ Date 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Day Signature MUST BE REPORTED TO 1400-424-802 24 HOURS 18. Transporter 2 Acknowledgement of Receipt Date of Materials Signature Printed Typed Name 19. Discrepancy Indication Space ALL SPILLS I CENTER AT 1 MOR 000378 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Month Day Year Printed/Typed Name Signature OL Oblow

General Instruction:

Read at instructions before completing this form. This form has been designed for use on a 12-p tith (#ife). Spewmencomputer printer, a furn point peningly also be used i press duwn hard. Ensure all copies are

Falleral and state regulations require generators and transporters of haza dous was claim beneral or operators of hazardous waste beatment, storage, and disposal found as to use this form (3700-22), and if nocessity, the continuation sheet (Form 8700-22A) for both inter- and intrastate transportation of hazardque waste as defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111). State regulations also require the use of this manifest for all regulated shipments of liquid industrial waste as required in Part 121 of Act 451 of 1994, as amended (Part 121)

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 49CFR, Part 111, Part 121).

Additional information such as "Rejected Load Procedures", state assigned identification numbers. fest forms, etc., can be obtained by contacting the Michigan Department of Environmental Quality (MDEQ), Waste Management Division's (WMD) Internet Home Page at: http://www.deg.state.mi.usrwind.or.you.may contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MCEQ

Complete all litems on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Item 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

Rem 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which case the total number of pages, counting the initial manifest page, should be shown

Rem 3. Enter the name of the generator and the mailing address to writin the manifest should be mailed If the address of the site at which the waste was placed into transportation is different from the making address record the site address in Item J.

Rem 4. Enter a telephone number (including area code) where an authorized agent of the generator can be reached in the event of an emergency and/or a partial or total rejected toda

NOTE: The 24 hour emergency phone number required for a hazardous materials shipping paper may be different from the generator's phone number

Rem 5. Enter the company mains of the first transporter who we transport the waste

Rom 6. Enter the transporter's U.S. EPA, twelve digit identification number. For Part 121 manufested shipments where a transporter opes not have a U.S. EPA assigned number, a state assigned number is to be used.

Rem 7. If us no a second transporter, enter the company name

Rem 6. Enter the second transporter's U.S. EPA, twelve digit identification number. For than 121 mass feeled chipments where a transporter dues hut have a U.S. ERA, assigned number, a state assumed

NOTE: If more than two transporters are used, the generator or third transporter shall initiate a continuation sheet. In item L of the continuation sheet, the generator/transporter must copy the State manifest document number listed in Item A. Every transport company used between the generator and the designor **facility (except for intermediate** rail **or** parge trail sporters used between the initial rail or barge carriers and **the designated facility) must be fisted. This is not intended to require multiple signatures for intrincial.** drivers working for one transporter. Item 2 is to be changed to reflect the added page(s). Continuation sheets must be appropriately completed in their entirety and proparly distributed. Continuation sheets may not be used to list additional waste streams

m 9. Enter the company name and site address of the facility designated to receive the waste listed on

Item 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in from 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

from 11. Enter an X in the HM box, if the waste is a hazardous material regulated by U.S. DOT (See 49 CFR 122). Enter the required U.S. DOT shipping description including Proper Shipping Name. Hazard Class or Division, ID Number (UNINA), and packing group for each waste as identified in 49 CFR 172. Additional information may also be required in this space, including technical name and reportable quantity references. For only Part 121 regulated wastes include an appropriate enipping description for the waste SV96W

hem 12. Enter the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry

CM = Metal drume, barrels, kegs

EW - Wooden drum, barrels kees

DF = Fiberboard or plastic drums, barrers, kegs

DT - Dump Truck

TP - Tanks, portable

TT = Cargo tanks (tank trucks) TC = Tank care

CY - Cyfriders

CM = Metal boxes, cartons, cases (including rot-offs).

CW = Wooden boxes, certons, cases CF a Fiber or plastic boxes, carrons, cases

BA - Burley, cloth, peper/plastic bags

from 13. Enter the total quantity of waste described on each kine. Do not use deciralis or hautor's

from 14. Enter the appropriate abtraivation for the unit of measure listed below

G - Gastons (hquide only)

P = Pounds

T is Today (2000 to 1 Y - Cutile Yalds

E = Liters (riquids only)

K = Kilocrems

M a Metric tone (1000 kg)

N = Cubic meters

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Item 15. The generator may use this space to indicate special transportation, treatment, storage or discount me, manor "moort/Export information as noted in the "International Shipment" instructions SOCIES IS THE CENTER

them 15. The also seek that lead to improve them 5 at an other the bifful on section on

from 17. Print the name of the pairs in accepting the waste on behalf of the first Lansporter. That poison must acknowledge acceptance of the waste described on the manifest by signing and entering the dute of ruse of

Rem 18. It applicable, brint the name of the person accepting the waste on behalf of the second transpartial. If natizens, it in intracknowledge acceptance of the waste described on the munifest Ly signific and entering the date of receipt

Nem 19. An authorized representative or the designated for alternate faculty must recein this space any discrepancy in the waste shipment

from 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknow wige acceptance of the waste described on the mandest by algoing and sintering the date of receipt

NOTE: MDEC "Rejected Load Procedures" provides guidance for paraal or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

Item A. A preprinted State magnifest document number

from B - H. May be required by ether states

Item 1. For hazordous wastes, enter the appropriate weste numbers found in P229 9212 torough FIZSS 9214 of Fact 111 and 40 OFFI Set Subparts Cland D. It more than one waste number is required to appropriately identify the waste, enter the additional numbers in item u. In selecting the most appropriate waste number the following hierarchy must be used lacute waste (including Pland acute F), U (toxic), K scecific sources. Inon-adute F (non-specific so inces) and D (characteristic). State irequiated westes follow the same nierarchy as federally regulated wastes. For Part 121 wastes which are not hazurdous wastes enter the appropriate code I stad below

Mixed Staye 1s	007L
Phain unestical	014L
Cranxpase On	0171
Cubiants and Water Solubia Olis	0190
Company of the second	2544
Bride	0926
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Biorcea for Eine by Badrivery	6
Conditionally Exempt Small Quarity, Generator	č
Emergency Response Geariup	Ē
Household Generated	н
Recycled Precious Metals	P
Recycled, Reclaimed, Used or Reused	A
Universal Weste	U

INTERNATIONAL SHIPMENTS

Exports: Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure, from the United States.*

Imports: Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA Uniform Hazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, most complete the manifest as required in R299.9310 *

"Transporters of nazardous waste shipments must deliver a copy of the manifest to U.S. Customs when importing or exporting the waste across U.S. borders. Record the foreign waste manifest document number in Item 15

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates manifest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Send the white copy to MOEQ no later than the tenth day of the month following the shipment. For shipments of wastes being transported to a designated facility outside of Michigan when an out-of-state marifest is used, mail to the MDEO a photocopy of the manifest when the shipment is placed into transportation and mail a photocopy of the second generator manifest copy when received

TRANSPORTER: Upon delivery to the designated (or aftermate) facility, and that facility signs and dates the manifest, the canary banded copy will be returned to you. It more than one transporter is used, the erantiest is to be copied and supplied to the previous transporter addrowledging the rehapt of the ship-ment by the next transporter. The canary banded copy stays with the manifest until the enpreent reaches. the designated facility

DESIGNATED FACILITY: Upon signing and dating the manifest as received, give the canary bundled controllie transmitter. Perum the blanded copy to the generator. Makime pink banded copy to the MOEO no latter transhe 10th day of the month following receipt of shipment.

ADDRESS ALL MOED MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

The public reporting burden for this collection of information is estimated to everage 31 minutes for generators, 16 minutes for transporters, and 16 minutes for treatment, storage and disposal facilities. The record keeping burden per response for this collection of information is estimated to avarage 6 minutes for generators, 6 minutes for transporters, and 6 minutes for treatment, storage and disposal facilities. The burder associated with reading the regulations is estimated at 1 hour and 15 minutes annually. Burden means the total time, effort, or financial resources expended by persona to generate, maintain, retain, or disclose or provide information to or for a Federal agency.

An eigency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid CMB control number. The CMB numbers for EPA's regulations are fisted in 40 CFR Pers 9 and 48 CFR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including through use of automated control techniques to the Director, OPPE Regulatory Information Division, U.S. Environmental Protection Agency (2.37), 401 M St., S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Affairson: Desk Officer for EPA, 725 17th Street, N.W., Washington, D.C., 20503. Include the OMB control number in any correspondence.



Please print or type.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039

		NIFORM HAZARDOUS WASTE MANIFEST	11.0027/415/66		- Manifest ocument No. }	2. Pag of			he shaded area ed by Federa
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Federal and State regulations provide for additional requirements, not included in these instrutions, regarding the use and management of this form (40CFR: 4#066) and 135, 9'89, 34 p.

Additional information such as "Rejected Load Procedu/es", state assign edilion influence, numbers, manifest forms, etc., can be obtained by contacting the Michigan Department of Environment of Environment (MDEQ). Waste Management Division's (WMD) Internet Home Page at: http://www.deq.stare.mi.us.wimi.or.ydu.may.contact the Manifest Unit directly... at (517) 379-1217. Continuation sheets are not supplied by MDEQ.

Complete all ferms on the manifest. Enter "N/A" if any item does not spally. Leave name that may be needed later blank, such as second transporter.

Rem 1, Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested ship ments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

Ram 2. Page number 1 of 1 should be recorded unless a continuation sheet, is used in which case the toral number of pages, counting the initial manifest page, should be shown.

Item 3. Enter the name of the generator and the making address to which the making address to If the address of the site at which the waste was placed into transportance is different training me making address record the site address in Item J.

Nem 4. Enter a telephone number gholds rig avoid outel where up authorized agent of the generator can be reached in the event of an emergency and/or a partial or lutar rejected local

NOTE:The 24 hour emergency phone in unities read lies for a hazardous material lies purely appearance in a different from the generator's oftene number

Rem 5. Enter the company it dube of the first transporter who will transport if a will de-

Nam 4. Enter the transporters U.S. EPA, twelve digit identification number. For Part 121 man feeted shipments where a transporter speechalt ave a U.S. EPA assigned number a stere assigned in the stere assigned. be used

item 7. If using a second transporter, enter the company haine

Nem 6. Enter the second transporters to Schick inverse digitizent carbon humbles and our contractions. fested etripments where a transporter occes not have a U.S. SPA lassing-euritem will a state assigned number is to be used.

NOTE: If more than two transporters are used the generator or third transporter of placetime, and all of the continuation sheet, the generator/transporter must copy the Stote manifer of the continuation sheet. ment number listed in frem A. Every the isomicality askid between the generators and his case is a facility (except for informediate cause) is lie that spontage acceptance in the light of a light of the designed facility) must be fixed. This is not intended to require in unote signar, but in the case of the control of the contro drivers working for one transporter. Here 2 is to be changed to reflect the added page(s). Continuation sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams.

Rem 9. Enter the company name and site address of the facility designated to receive the waste listed on this manifest.

Item 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

from 11. Emerian X in the HM box, 11the whiste is a natiandous material regulated by U.S. DOT, 15ee 49. OFR 1720. Enter the regimed CIS DOT at poing casonotion including Tropes Bripping Number Royard Classi or Division 10 Number (UhiNA), and calciung group for each waste as identified in 40 CHA 172 Additional information may also be required in this space, including fectioical name and recordable quantity references. For only Part 121 regulated wastes include an appropriate shipping descriction for the waste

from 12. Enter the number of containers for each waste and the appropriate abbieviations listed below for the type of container. Each container type requires separate entry

DM = Metal drums berreis kees

EW Wooden drum, barreik kege

EF - Faverboard or pushic drums, burrels, kage

Die Damas Trens

TP » Tanks, portable

TT - Cargo tanks (tank trucks,

TC = Tank cars

CM = Mike boxes cartons cases (including roll offs)

CW = Wooden houses bartons (1896) OF = Fiber or plastic boxes (1817) (1916)

BA = Burliop, cloth, paper/plastic dags

Nom 19. Enter the title quality of waste described on each the . Do not use decimals or nuclions.

Rem 14. Cittler tha appropriate loss of at our for the cit of measure talks there will

G = Gallery Browtte Driv)

Four ts

4 Tons (2000 tb.)

 Cubic Yapos Lis Litters requese oney?

Ka Klocrems

Mill Metric tone (1000 kg)

N « Cubic meters

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Pemile, Tee . . .

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The following the term of the second of the from 18. If applicable, print the name of the person according the waste on person of the security takes

Rem 19. An authorizent errese hable of the talking late of the rate in existing USF him emails space any dischediance in the Waste Ship (1901)

from 20. Print the mame of the person accepting the waste on behalf of the designated facing. That person must econowie; go acceptance of the waste describer, on the manifest by signing and arresing

NOTE: MOSQ 'Resouted Load File educes' provides guidance for partial or total foad rejectants

Only the following information in the shaded area is a State of Michigan requirement:

Item A. A presented State manifest discursor number

from Bir H. May be required by other states

Item It. For hazardous wastes, either tile austriphate waste rultiones world in R229 9210 till sogn H299 9014 of fluid 151 and 40 cilife 751 Subtonits Cig. (b) of diore that one wasto number is required to supproblemely into diff, the walley enter the solutional numbers in third. The weeting this most let having means where number the following hierarchy must be used. Abute waste (not up ny Pland soute F) by fix wilk. withing framework incoming more prompts and secretary means from the content of the content of the content of t forces from unders, from **active E-front-specific** is understanded, in the content of the wasted enter the acycophiate code csted terow

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Recycled, Reclaimed, Used or Reused	尺	
Universal Weste	U	

INTERNATIONAL SHIPMENTS

Exports: Transporters must sign and enter the date the waste leaves the United States in item 15. The primary exporter must identify the point of departure. from the United States,*

Imports. Ship neris of hazard tils and Part 101 regislated wastes must be procedured i via U.S. EPA. Uniform paradous Waste Manifest. Any derson finish cring using 1.5 importer as defined it. Part (1). must complete the manifest as required in R299,9310.*

Transporters of hazardous waste shipments must deliver a copy of the munifest to U.S. C. stone, when importing or exporting the waste auross U.S. borders. Record the foreign waste malifest document number in Jean 15

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transponer signs and light increfely) remove the white and good searched copies and give the remainder of the interfest copies to the trans-porter. Secrethe white copy to ACEC not learn that tenthics, or the interfest copies to the shipment. For stripments of wastes being transcripted to a designated facility outside of Michigan when all dutied state manifest is used, must to the MCECC's phistocopy of the manifest when the ship ment is planter into transportation and meil a photocopy of the second generator than that copy, when received

TRANSPORTER: Licion delivery to the designated (or elternate) this my lacd that facility is give and dates It is mainfest, the capary bandled crysy will be returned to you. It more than one banapone is used, the now heat once hopped and supplied to the unexpositionable wicknows of the results of the association by to exprise uponter. The capary banable in my tip expression of the upon treathes. the designated facility

ADDRESS ALL MOED MANIFFST COPIES TO:

WASTE MANAGEMENT DIVISION CHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO 610X 30038

The sold creporting burden for this collection of information is estimated to overage 2) minutes for generators, 16 minutes for bansmoners, and 16 minutes to training in the collection of information is estimated to average 6 minutes for generators, 6 minutes for trainiporting, and 6 minutes for beatherst, storage and disposal (source). The burden associated with relating the requirement at 16 minutes arounds). Surface means the total time, effort, or fruences expended by persons to generate insulation, or discusse or provide information to or for in Federal agency.

An epency may not conduct or sports or and a person is not required to respond to a collection of information unless a disclays a currency used CMB control number. The CMB includes the CMB is a currency and CMB control number. The CMB includes the control of the currency and CMB control number. The CMB includes the currency are a currency as a currency and currency and currency as a currency as a currency and currency and currency as a currency and currenc Attendum: Desk Officer for EPA, 725 17th Street, N.W., Washington, D.C. 20603. Include the OMB control number in any correspondence



Please print or type.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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DO NOT WRITE IN THIS SPACE

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Form Approved. OMB No. 2050-0039

Mequired under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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General Instructions

Pead actinst actions before completing this form. This form has been designed to use on a 12 pilon (et til) typewritercompager printer: a firm point pen may also be used uplies down hard. Ensure all copies are Micubia.

Followal and state riigitations require generators and transponder of hazardous waste and owners or oxierators of this addous waste treatment, storage, and disposal fixedies to use this form (97.0-22) and, if necessary, the continuation street (Form 8700-22A) for both inter- and intrustate transportation of hazard ous waste as defined in 40 CFH and Part 111 of Act 451 of 1994, as amended (Part 111). State regulations also require the use of this manifest for all regulated shipments of liquid industrial waste as required in Part 121 of Act 451 of 1994, as amended (Part 121).

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 49CFR, Part 111, Part 121).

Additional information such as "Rejected Load Procedures", state assigned identification numbers, manifeet forms, etc., can be obtained by contacting the Michigan Department of Environmental Quality (MDEQ).

Waste Management Division's (WMD) Internet Home Page at: http://www.deg.state.m.us/wmd.or.you.may.contact the Manifeet Unit directly: at (517) 373-1217. Continuation sheets are not supplied by MDEQ.

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Rem 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested ship-ments where a generator goes not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

Rem 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which case the total number of pages, counting the initial manifest page, should be shown

item 3. Enter the name of the generator and the mailing address to which the manifest should be malied If the address of the site at which the waste was placed into transportation is different from the maining address record the site address in from .)

Nem 4. Enter a telephone number (including area code) where are authorized agent of the generator can be reached in the event of an emergency and/or a partial or total rejected load.

NOTE: The 24 hour emergency phone number required for a hazardous materials shipping paper may be different from the generator's phone number

hem 3. Enter the company name of the first transporter who will transport the waste

Rem 6. Enter the transporter's U.S. EPA twelve digit identification number. For Part 121 manifested stipments where a transporter does not have a U.S. EFA assigned number: a state assigned number is to he used

Rem 7. If using a second transporter, enter the company name

Rem 8. Enter the second transporter's U.S. EPA, twelve digit identification number. For First 1995 man feeled shoments where a transporter does not have a U.S. CEA, assigned humber, a such along with number is to be used

NOTE: If more than two transporters are used, the generalist or third transporter shall initials a continualism sheet. In item L of the communition sheet, the generator/transporter must copy the State man test docu ment number listed in Item A. Every transport company used between the generator and the designed facility (except for intermediate tail of burge transporters used between the Hittal rull or barge carriers and eignated facility) must be listed his is not intended to require multiple signatures for individual drivers working for one transporter. Item 2 is to be changed to reflect the added page(s). Continuation sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional weste streams.

Rem 9. Enter the company name and site address of the facility designated to receive the waste listed on

ftera 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

flem 11. Emer an X in the HM box if the waste is a hazardous material regulated by U.S. DOT. (See 49. DFR (72) Enter the required U.S. DCT shipping description, including Princer Snipping Name, Hazard Class or Division. 'D Number (UNINA), and packing group for each waste as identified in 49 CFR 172. Additional information may also be required in this space, including technical name and reportable quantity references. For only Part 121 regulated wastes include an appropriate shipping description for the waste mageta

Item 12. Enter the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry

CM = Metal drums, berrels, kegs

DW = Wonden drum, barrels, kegs

DF = Fiberboard or plassic drums, barrels, kegs

DT - Durno Truck

TP = Tanks, portable

TT = Cargo lenks (tank trucks)

TC - Tank care CY - Cylinders

CM a Metal boxes, cartons, cases (including roll-offs)

CW - Wooden boxes, cartons, cases

CF = Fiber or plastic boxes, cartons, cases

BA = Burlap, coth, paper/plastic begs

from 13. Enter the lotal quartity of waste described on each line. Do not use decimals or fractions

item 14. Enter the appropriate abbreviation for the unit of measure listed below

G = Galions (liquids only)

F × Pounds

T = Tons (2000 lb.)

Y + Cubic Vards

L = Litters (injuids only) K = Kikigrams

M = Metric tons (1000 kg)

N = Cubic meters

MOR 000383

Henri 15. The generator may use this space to indicate special transportation, treatment, storage or disposal information, import/Export information as noted in the "International Shipment" instructions section is to be recorded here

from 16. The large due to stread games should be sign as a tables on the appropriate

Item 17. Print the name of the person accepting the waste on benail of the first transporter. That person must acknowledge acceptance of the waste pescribed on the manifest by signing and entering the date * acost

Rem 18. If apprecable, print the name of the person accepting the waste on behalf of the second transporter. That person must acknowledge acceptance of the waste described on the manifest by agring and entering the date of receipt

Hom 19. An authorized representative of the designated (or alternate) facility must note in this space any discrepancy in the waste shipment

Rem 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt.

NOTE: MOEQ 'Rejected Load Procedures' provides guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

Hem A. A preprinted State manifest document number

Rem B - H. May be required by other states.

from I. For hazardous wastes, enter the appropriate waste numbers found in R229 9212 h rough R299 9214 of Part 111 and 40 Of Ri261 Subparts Cland D. If more than one waste number is required to appropriately identify the waste, enter the additional numbers in Item J. In selecting the most appropriate waste number the following hierarchy must be used: acute waste (including P and acute F). U flowel, K (specific sources), rion-acute F (non-specific sources) and D (characteristic). State, regulared wastes offine the same hierarchy as federally regulated wastes. For Part 121 wastes which are not bazardous wastes enter the appropriate code listed below

Miked Solvents	007L
^{Sharmaceutica}	C14L
Crankcase Oil	617.
Cholanta and Water Soluble Oils	019L
Enhar Till (Describe in Item 11 (killtem J)	0.219
Brine .	022
POR	026_
Other wastes (Describe in term 1) or item up	0292
\$ 160.00g	! =

Item un. Gereraturs are to use this occurre for the energy of afferent from the inaking undress noted in them. 3 Judictions, waste contest, additional description to 100 and 121 waste as noted in them tich these instructions, approval or not mingling authority as required in FigeR 9304(6).

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Household Generated	н
Recycled Precious Metals	P
Recycled, Reclaimed, Used or Reused	A
I brivage at Wages	11

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary suporter must identify the point of departure, from the United States.*

Imports. Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. CPA. Uniform Hazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, must complete the manifest as required in R299.9310.*

"Transporters of hazardous waste shipments must deliver a copy of the manifest to U.S. Customs when importing or exporting the waste across U.S. borders. Record the foreign waste manifest document number in item 15

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates manifest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Send the write copy to MDEQ no late, than the term day of the month following the shipment. For shipments of wastes being transported to a designated facility outside of Michigan when an out of-state marifest is used, mail to the MDEQ a photocopy of the marifest when the shipment is placed into transportation and mail a photocopy of the second generator manifest copy, when received

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility signs and dates the manifest, the canary banded copy will be returned to you. If more than one transporter is used, the marriest is to be copied and supplied to the prewous transporter acknowledging the receipt of the thipment by the next transporter. The canary banded copy stays with the manifest until the shipment reaches the designated facility

DESIGNATED FACILITY. Upon signing and calling the maintest as received, give the car ary banded ony to the transporter. Return the blue banded copy to the generator. Mail the pink banded copy to the MDSO no later than the 10th day of the month following receipt of shipment

ADDRESS ALL MORO MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOY 10038 LANSING MI 48909-7538

The public reporting burden for this pollection of information is estimated to average 31 minutes for generators, 18 minutes for management, and 16 minutes for treatment, storage and disposal facilities. The record keeping burden per response for this collection of information is estimated to average 6 minutes for generators, 6 minutes for temporatins, and 6 minutes for treatment, storage and disposal facilities. The burden associated with reading the requisitors is estimated at 1 hour and 15 minutes annually. Burden means the total time, effort, or financial resources expended by persons to generate, marriain, retain, or disclose or provide information to or for a Federal agency.

h agency may not conduct or sporeor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB numbers for EPA's regulations are listed in 40 CPA PAI. 9 and 48 CFR Chapter 15. Send comments regarding these burden statements or any other aspect of this colection, including suggestions for reducing the burden, including strough use of automated colection techniques to the Director, OPPE Regulatory Information Division, U.S. Environmental Protection Agency (2.37), 401 M St., S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Attention: Direct Office of the Comment of the Office of the Comment of the Office of the Comment of the Office of the Comment of the Office of the Comment of the Office of

Michigan Recovery Systems, Inc.





March 20, 1998

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SVCS.

Fax: (630) 365-3112

PHIL MEYER MOREY CORP 2659 WISCONSIN AVENUE DOWNERS GROVE, IL 60515

This Generator Approval Notification acknowledges the acceptability of waste material(s) into Michigan Recovery Systems, Inc. (MRSI) and ensures that this facility has the appropriate permit issued by federal and state regulatory agencies to properly transport, treat, and/or disposal of the waste material(s).

Approval Number Waste Common Name
032217D FLUX

The Approval(s) listed on the following page(s) are based upon information supplied to MRSI by your company. The generator is ultimately responsible for the accuracy and completeness of the characterization information provided and other information that was provided during the technical approval process. The generator must notify the MRSI Approvals Department immediately upon knowledge of any changes to this information.

The Approval(s) will expire on the date(s) noted on the following page(s). Any new Approvals obtained from MRSI on future business will be valid for a period of one (1) year from the date of issuance. Within 30 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

MOR 000384



Please notice or time

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO NOT WRITE I	IN	THIS	SPACE
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and Part 121 of Act 451, 1994, as amended,

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

OMB No. 2050-0030

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Federal and State regulations provide for additional requirements, not highlight in these matter tions, regarding the use and management of this form (40CER: 49C/A, Par. 18), Paris 1237

Additional information such as "Rejected Load Procedures", state assigned identification cumbers, manifest forms, etc., can be obtained by contacting the Michigan Department of Environmental Duality (MDEQ). Waste Management Division's (WMD) Improst Home Page at: http://www.dec.st.ne.m.us.emd.cr.vu.r.mev contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MDEG.

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Item 1. Enter the generators U.S. EPA twelve digit identification number. For Part 121 manifested shic. ments where a penerator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique tive digit munifest document number fe g. 00001).

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Nem 3. Enter the name of the generator and the mailing address to whom the promites should be maked If the address of the site at which the waste was placed into transportables as a concern from the manife address record the site address in Item J.

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NOTE: The 24 hour emergency priories will be alreading a mazardous in user as ships included may be different from the generator's pix ne number

Rem S. Enter the company name of the first transporter will A ill managed the war in

Nem 6. Fater the transporter's U.S. FPA, twelve distingent fication in their in Fig. 121 in no feated shipments where a transporter that entities and the entitles as the first entitle as the entitle and the entitle as the entitl

hom 7. If using a second transplanter is not train. in y here.

Rem 8. Enter the second toke source source of the entertail of the control of the control of the control of the second test of the control of number is to be used

NOTE: If more than two transporters are used all all generator or third transporter shaft in take 400 years used in item 5, of the continuation sheet, the generator transporter must operate 5 for monifold properties and temporal transporter must operate by the State monifold properties and them A. Every that some 100 years y used by poet. The generator was all the some 100 years are some 100 years of the generator transporters are some 100 years of the generator transporters. metal number is search at item or in a very money in a vicinity production production of the district facility (second for intermed about or thanged a vicinity production would be be a considered and a considered a vicinity of the designated facility) must be if step. This is not included a to accompany to a considered and a considered a vicinity of the designated facility) must be if step. drivers working for one transporter. Item 2 is to be manged to reflect the dailed payrifs; "Our include a sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams

from 9. Enter the company name and site address of the facility designs,ed to receive the waste listed on

Rem 10, Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

tem to it menian X in the HM box in the waste is a pazardous material legislation by 5. 5. 5. 0.1. (Sept. 49) CER 17C. Einer the required Unit CCT shipping description, including Prince or our jilkurial mazura. Class or CQL apps: Citiz merilionNA), and packing group for each watte as penytive in 4a CER 172. Aftat problem from may also be repuired in this space, including technical come and reportable quarrity. references. For only Part 121 regulated wastes include an appropriate shipping description for the waste

flam 12. Enter the number of containers for each waste and the appropriate abbreviations tisted below for the type of container. Each container type requires separate entry.

DM - Metal dr.ms. barrels, kess

DW - Wooden Glum, purress keys

👺 - Siberboard or passic drums, barrela, kaçsı

Di la Dump Truck

TP = Tanks ponable

TT = Cargo tenke (tank trucks)

TC = Tank cers CY = Cut orders

OM a Meral boxes, cartons, cases (including roll offs)

CW a Wooden boxes, cartons cases OF a Fiber or plastic boxes in think makes

BA = Burlan, croth, paner/plastic regs

from 13. Enter the total duantity of waste described on each line. Do not use decimals or fractions

dem 14. Enter the edynamical statement of the continue as a stage of a

G = Salions (liquids only)

Pile From ids

1 = "or 6 (2000 to)

Y = 1 mon Valing

Lis Edera piquida priviti. Kägrans

M - Metic Interplace had N - Cubic meters

MOR 000386

igen (1905) Service to the first over may use this beads to indicate surjus munispectation including a storage of 1 Dott Ecopt information as noted in the "International "1" differs, security of

ttern 16 Tim ...

flets 17. First the hall but the poison accepting the waste on perial of the first danagement. That is must a skindwiedge acceptance of me waste described on their confest by signing and entering the pro-

Neon 13 of Noncesce of mitthe name pritting person accessing the waste on behalf of the space of the space of the space of the manifestors against the manifestors against the control of the space of the manifestors against the space of the manifestors against the space of the s ritae rorkajne da un rieucijo.

Nem 19. An water geometric electric work is to be optimizational in the first spin of the control of spinors and To exclaricy in the waste on pinetr

itiem 20. Print the numb of the person screpting the waste on behalf of the designated family. The person must abmowledge ecceptance of the waste described on the manifest by signing and entering the date of tene of

NOTE: MYSO Prejuded that Procedures' provides guidance for build or that investment in

Only the following information in the shaded area is a State of Michigan requirement:

Hem A. A cresh hied State man test popularies comba-

Beautiful Hawking to the other states.

Harm I, the reading of the parameter of the the section Book continues and PRESS 921 A Contact 111 Gibble on Signification and Distribute of the contaminate number of the contact of the Media 9014 or start (1) is to 40 or mobile to documble or an Divitional a theoretic equationaries and or applicable programme of the programme waltes onter the impropriate code i stop below.

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Emergency Response Cleanup

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Recycled, Reclaimed, Used or Reused

Inversel Warre

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 13. The primary exponer must identify the point of departure, from the United States.*

Importe. Chipments of humicous and Part 121 regulated #usres in usr. A conscion early a U.S. c.-A of an thal ardous Waste Manifest. Any person functioning as the 1.3 importer as defined in Part 11t, must complete the manifest as required in R299,9310 *

Transporters of hazardous waste shipments must delike a copy of the πa riest to $a \in \mathbb{R}$ which is majorting or hipporting the waste across of S conders. Record the foreign waste of $\pi \cap S$ determine sur per in tem 10

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and cures markets) ron overmallyn is land god ก็แก่ dod i renes allo give meny เกิดเปล่า สำคัญ กับกับกับกับกับกับกระบบ เมื่อ อยายก Sen a new white in ny tulyfue น้ำการ solicizon major กับกับกับกับกับกับกับกับกับกับกับกระบบ protection รายอกุลrds of whates hong numbers from tha celughated **facility dictivitie of Mongan w**hen un but of state mainfliet is used, med to the MObid a protocopy of the manifest view means of the its persed and trues. ported on and mail a photocopy of the spoolid generalization of actions on the received

TRANSPORTER: Upon delivery to the dealgranes (in aller they have year dithat facility signs and dains the manifest, the capus banded digg wint or is three to you. If more than one transport in a used, the manifest to to be pooled (and supplied to Timprevious transporter specific groups of the parties who all only stays with this more.

The parties will be set the parties of t the designated facility

DESIGNATED FACILITY (1999) Signification only the maintest as received, give the survey Lenced They retreated group of the control of the control of the whole of the WDs Choline (they control of the contro 2.5.10109

AUDRESS ALL MOFG MANTEST COPIES TO:

WASTE MANAGEMENT DIVISION CHIGAN DEPARTMENT OF ENVIRONMENTAL QUAL ... PO BOX 30C18

The public reporting burden for the policition on of information is estimated to average 31 minutes for generation, 16 minutes for transporters and 16 minutes to produce the transporters and 16 minutes to produce the transporters and 5 minutes to transporters, and 5 minutes for transporters to transporters, and 5 minutes for transporters, and 5 minutes for transporters, and 5 minutes for transporters, and 5 minutes for transporters, and 5 minutes for transporters, and 5 minutes for transporters, and 5 minutes annually. Surfam means the total time, effort, or financial resources expended by persons to generate in national orders with a financial resources expended by persons to generate in national orders with a financial resources.

An apency may not conduct or sponsor, and a person is not required to respiration a cohection of informacci unless it displays a currently valid OMB control number. The CMB is independent of the control number of the CMB is independent of the control number of the CMB is independent of the control number of reon: Desk Officer for EPA, 725 17th Street. N.W., Washington, D.C. 20503. Include the OMB control number in juny correspondence

MICHIGAN RECOVERY SYSTEMS, INC. Land Disposal Restriction Notification Form

Gene	rator: _	More	y Cor	p.	EPA ID #.	ILD025415266	Manifest # htt	4401102
List th	_	e codes a	and che	ck the appropriate box for) Non-Wastewater () Wa	the waste desc	cribed on each line of the	e manifest referenced Non-Wastewater ()	above Wastew
b			;) Non-Wastewater () Wa	astewater d	()	Non-Wastewater ()	Wastewa
				hibition levels exceeded t .40 'Treatment Standards			e applicable hazardol	us waste
		Manifest Present		m #;		Wastewater mg/l or	Non-Wastewater mg/l or	
11a.	11b.	11c.		Constituents of Cor	ncern CAS#	Technology Code	Technology Code	
1. Lis	sted Ha	zardous	Waste	s F001,F002,F003,F004,	F005-Solvents	wastes that contain any	of one or more of the	: follown;
				spent solvents:				
		. ——		Acetone	67-94-1	0.28	160	
				Benzene	71-43-2	0.14	10	
				n-Butyl alcohol	71-36-3	5.6	2.6	
					75-15-0	3,8	NA	
				· • • • • • • • • • • • • • • • • • • •	56-23-5	0.057	6.0	
				Chlasekaanaa	108-90-7	0,057	6.0	
				o-Cresol	95-48-7	0.11	5.6	
				m-Cresol	108-39-4	0.77	5.6	
				n areael	106-44-5	0 77	5.6	
_	_			Cresol-mixed isomers	1318-77-3	0.88	11.2	
				Cyclohexanone	108-94-1	0,36	NA	
				- · · · ·	95-50-1	0.088	6.0	
				C	141-07-6	0.34	33	
				-	100-41-4	0.057	10	
				Ethyl benzene	60-29-7	0.12	160	
						5.6	170	
				Isobutyl alcohol	78-83-1	5.G	NA	
				Methanol	67-56-1	0.089	30	
					75-09-2	0.28	36	
				Methyl ethyl ketone	78-93-3		33	
				Methyl isobutyl ketone	108-10-1	0.14	14	
				Nitrobenzene	98-95-3	0.068		
				Pyridine	110-86-1	0.014	16	
				Tetrachloroethylene	127-18-4	0.056	6.0	
				Toluene	108-88-3	0.080	10	
				1,1,1-Trichloroethane	71-55-6	0.054	6.0	
				1,1,2-Trichloroethane	79-00-5	0.054	6.0	
			-	1,1,2-Trichloro-1,2,2-				
				trifluoroethane	76-13-1	0.057	30	
				Trichloroethylene	79-01-6	0.054	6.0	
				Trichloromonofluoro-	75-01-0			
					7C CO 4	0.020	30	
				methane	75-69-4		30	
				Xylene-mixed isomers	1330-20-7	0.32	30	
		•		F003 and/or F005 solve	ent wastes that o	contain any combination	of one or more of the	!
				following three solvents		3.8	4.8 mg/LTCLP	
				Carbon disulfide	75-15-0	3.6 0.36	0.75 mg/ TCLP	~
				Cyclohexanone	108-94-1	5.6	0.75 mg/l TCLP	<u>.</u> 8
				Methanol,	67-56-1	3.0	5.75 mg/ 56.	03
							COO1 S column	MOR 000387
				F005 solvent waste cont	aining 2-Nitropr	opane as the only listed	LOO1-2 2014CH	œ
				2-Nitropropane	79-46-9	WETOX or CHOXD	INCIN	Ō
				• •		fb CARBN; or INCIN		Σ

F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5 solvent.

110-80-5

2-Ethoxyethanol

BIODG or INCIN

INCIN

				Waste	If applicabl		Treatment Standard	
			 .	Code	Subcategory		and/or prohibition levi	cis
2. C	alifornia	List Wa	aste	This shipment contains haz California List waste treatm			RCRA Section 3004(d)	
				_ Liquid waste with PCB's >5	• •		2011	
				Liquid waste that contain had 1,000 mg/l or 1000 mg/kg (r	_		-	_
				Appendix III)	1011119010007.(11	10111210111011, (1100	55 TOGRA (11 40 OF 11 200.	.J.E.
				_ Nickel (liquid waste)>134 pp	om			
				_ Thallium (liquid waste) >130	ppm			
3. H	azardous	Waste	Chara	cteristics				
				_ No additional hazardous wa	ste character	istics are exhibited by	this waste which would	
				require treatment beyond the				
<u> </u>				Treatment standards for the	additional ha	izardous waste chara	cteristics exhibited by thi	is
				waste are indicated below.				
	Check M		Line Ite	m #:		Wastewater		vater
		Present				mg/l or	mg/l or	~ ~ ~ ~
11a.	116.	11c.	11d.	Constituents of Concern	CAS#	Technology Co	de Technology C	
X				D001-Ignitable Hi TOC(>109	•	N/A	RORGS or CM	
				D001-Ignitable Liquids exce		DEACT & meet 26		
				managed in non-CWA or o	•	or RORGS or CM	IBST or RORGS or C	WRZI
				non-Class 1 SDWA system		DEACT	DEACT	
				D001-Ignitable Liquids excep		DEACT	DEACT	
				managed in CWA or equiv D002-Corrosive managed in			8.48** DEACT & meet 2	268.48
				or equivalent/non-Class1 S		ns		
				D002-Corrosive managed in	-	DEACT	DEACT	
				equivalent/Class1 SDWA s	ystems			
								
				D004-Arsenic	7440-38-2	5.0	5.0 mg/l EP or	r TCLF
				D004-Arsenic D005-Barium	7440-38-2 7440-39-3		5.0 mg/l EP or 100.0 mg/l TCLP	
				D005-Barium	7440-39-3	5.0 100 1.0	-	
				D005-Barium D006-Cadmium		100	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP))
				D005-Barium	7440-39-3 7440-43-9	100 1.0 5.0 5.0	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or	r TCLF
				D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury	7440-39-3 7440-43-9 7440-47-3 7439-92-1	100 1.0 5.0	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or IMERC or RMI	r TCLF
				D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory)	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6	100 1.0 5.0 5.0 N/A	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or IMERC or RMI	o o r TCLI
				D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6	100 1.0 5.0 5.0	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or IMERC or RMI	o o r TCLI
				D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory)	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7439-97-6	100 1.0 5.0 5.0 N/A N/A	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or IMERC or RMI	o r TCLI ERC
				D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7439-97-6	100 1.0 5.0 5.0 N/A	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or IMERC or RMI	o r TCLI ERC
				D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury subcategory)	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7439-97-6	100 1.0 5.0 5.0 N/A N/A	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or IMERC or RMI	o r TCLI ERC
				D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury subcategory) D009-Mercury All wastewater	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7439-97-6 7439-97-6	100 1.0 5.0 5.0 N/A N/A N/A	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or IMERC or RMI RMERC 0.2 mg/l TCL N/A	o o r TCLF ERC
				D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury subcategory)	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7439-97-6	100 1.0 5.0 5.0 N/A N/A	100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or IMERC or RMI	o o r TCLI ERC

. 3. Hazardous Waste Characteristics (con't)

For non-wastewater waste streams that have any of the hazardous waste characteristics on this page checked, include the Inderlying Hazardous Constituents Form with this LDR form.

Check Manifest Line Item # # Present		Namilest Line Item #			Wastewater mg/l or	Non-Wastewater mg/Lor	
11a.	116.	11c.	11d.	Constituents of Concern	CAS#	Technology Code	Technology Code
				D012-Endrin	72-20-8	BIODG or INCIN	0 13 & meet 268 48
				Endrin Aldehyde	7428-93-4	BIODG or INCIN	0.13 & meet 268 48
				D013-Lindane			
				alpha-BHC	319-84-6	CARBN or INCIN	0.066 & meet 268.48
				beta-BHC	319 - 65-7	CARBN or INCIN	0.066 & meet 268.48
				delta-BHC	319-68-8	CARBN or INCIN	0,066 & meet 268,48
				gamma-BHC (Lindane)	319-65-7	CARBN or INCIN	0.066 & meet 268,48
				D014-Methoxychlor	72-43-5	WETOX or INCIN	0.18 & meet 268.48
				D015-Toxaphene	8001-35-2	BIODG or INCIN	2.6 & meet 268,48
				D016-2,4-D	94-76-7	CHOXD, BIODR or	10.0 & meet 268.48
						INCIN	77.7
				D017-2.4.5-TP	93-72-1	CHOXD or INCIN	7.9 & meet 268.48
				D018-Benzene	71-43-2	0.14	10.0 & meet 268.48
				D019-Carbon Tetrachlonde	56-23-5	0.057	6.0 & meet 268.48
				D020-Chlordane	57-74-9	0.0033	0.26 & meet 268.48
				D021-Chlorobenzene	108-90-7	0.057	6.0 & meet 268.48
				D022-Chloroform	67-66-3	0.046	6.0 & meet 268.48
_				D023-o-Cresol	95-48-7	0.11	5.8 & meet 268.48
_				D024-m-Cresol	108-39-4	0.77	5.6 & meet 268 48
_				D025-p-Cresol	106-44-5	0.77	5.6 & meet 268.48
_				D026-Total Cresol	1319-77-3	0.88	11.2 & meet 268.48
_				D027-p-Dichlorobenzene	106-46-7	0.090	6.0 & meet 268.48
_				D028-1,2-Dichloroethane	107-06-2	0.21	6,0 & meet 268,48
_				D029-1,1-Dichloroethylene	75-35-4	0.025	6.0 & meet 268,48
_				D030-2,4-Dinitrotoluene	121-14-2	0.32	140.0 & meet 268.48
_				D031-Heptachlor	76-44-8	0.0012	0,066 & meet 268.48
				Heptachlor epoxide	1024-57-3	0.016	0.066 & meet 268.48
				D032-Hexachlorobenzene	118-74-1	0.055	10.0 & meet 268.48
				D033-Hexachlorobutadiene	87-68-3	0.055	5,6 & meet 268,48
_				D034-Hexachloroethane	67-72-1	0.055	30,0 & meet 268,48
_				D035-Methyl ethyl ketone	78-93-3	0.28	36.0 & meet 268.48
_				D036-Nitrobenzene	98-95-3	0.068	14.0 & meet 268.48
_				D037-Pentachlorophenol	87-86-5	0.089	7.4 & meet 268.48
-					110-86-1	0.014	16.0 & mcet 268.48
				D038-Pyridine	127-18-4	0.056	6.0 & meet 268,48
-				D039-Tetrachloroethylene	79-01-6	0.054	6.0 & meet 268.48
_				D040-Trichloroethylene	95-95-4	0.018	7.4 & meet 268.48
_				D041-2,4,5-Trichlorophenol	88-06-2	0.035	7.4 & meet 268.48
-				D042-2,4,6-Trichlorophenol	75-01-4	0.033	80 & meet 268 48
				D043-Vinyl Chloride	12-01-4	0 41	

1 am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and impresonment

Company Name.	MORET CORP.	
	1 m	Date: 3.11.98
\ullionzed Signature.		

MICHICAN RECOVERY STUTLING, and Underlying Hazardous Constituents Form

Page	4	ol	4

Manifest Doc.#;	 Line Item	 MRSI Approval Number	

· Circle those regulated constituents which can reasonably be expected to be present, at the point of generation of the hazardous waste described above, at a concentration above the specified treatment standard.

Acenaphinylene
Aceaphthene
Acctone
Acctonitate
Acetophenone
2-Acetylaminofluorene
Acrolein
Acrylamide
Acrylonitale
Aldna
4-Aminobiphenyl
Aniline
Anthracene
Aramite
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC
Benzene
Benz(a)anthracene
Benzal chloride
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(g.h.i)perylene
Benzo(a)pyrene
Bromodichloromethane Methyl bromide
1-Bromophenyl phenyl ether
1-Butyl alcohol
Butyl benzyl phthalate
!-sec-Bulyl-4,6-dinitrophenol
arbon disulfide
arbon tetrachloride
hlordane
-Chloroaniline
hlorobenzene
hlorobenzilate
-Chloro-1,3-butadiene
hlorodibromomethane
hloroethane
s(2-Chloroethoxy) methane
s(2-Chloroethyl) ether
iloroform
s(2-Chloroisopropyl) ether
Chloro-m-cresol
Chloroethyl vinyl ether
loromethane
Chloronathalene
Chlorophenol
Chloropropylene
• • •
rysene
Presol
Cresol
irosol

iresol .

dollexanone

Acenaphthylene

lituents which can reasonably t	
above, at a concentration above	/C
1,2-Dibromo-3-Chloropropai	ne
Ethylene dibromide	
Dibromomethane	
2,4,-D	
o-p'-DDD	
ρ.ρ'-DDD ~ ~	•
o.p'-DDE	
p.p'-DDE	
o.p'-DOT	
ρ,ρ'-DDT	
· · · · · · · · · · · · · · · · · · ·	
Dibenz(a,h) anthracene	
Dibenz(a.e)pyrene	
m-Dichlorobenzene	
o-Dichlorobenzene	
<i>p</i> -Dichlorobenzene	
Dichlorodifluoromethane	
1.1-Dichloroethane	
1,2-Dichloroethane	
1,1-Dichloroethylene	
trans-1,2-Dichloroethylene	
2,4-Dichlorophenol	
2,6-Dichlorophenol	
1,2-Dichloropropane	
cis-1,3-Dichloropropylene	
trans-1,3-Dichloropropylene	
Dieldrin	
Diethyl phthalate	
2,4-Dimethyl phenol	
Dimethyl phthalate	
Di-n-butyl phthalate	
1,4-Dinitrobenzene	
4,6-Dinitro-o-cresol	
2,4-Dinitrophenol	
2,4-Dinitrotoluene	
2.6-Dinitrotoluene	
• • • • • • • • •	
Di-n-octyl phthalate	
p-Dimethylaminoazobenzene	
Di-n-propylnitrosamine	
1,4-Dioxane	
Diphenylamine	
Diphenylnitrosamine	Į
1,2-Diphenyl hydrazine	
Disulfoton	1
Endosulfan I	Ì
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Endrin	
- -	,
Endrin aldehyde	,
Ethyl acetate	5
Ethyl cyanide	£
Ethyl benzene	F
Ethyl ether	F
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bis(2-Ethylhexyl)phthalate

Ethyl methacrylate

Elliylene oxide

Famphur
Fluoranthene
Fluorene
Heptachlor
Heptachlor epoxide
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadie
HxCDDs
HxCDFs
Hexachloroethane
Hexachloropropylene
Indeno(1,2,3-c,d) pyrene
lodomethane
Isobutyl alcohol
Isodrin
Isosaírole
Kepone
Methacrylonitrile
Methanol
Methapyrilene
Methoxychlor
3-Methylcholanthrene
4,4-Methylene bis-
Methylene chloride
Methyl ethyl ketone
Methyl isobutyl ketone
Methyl methacrylate
Methyl methansulfonate
Methyl parathion
Naphthalene
2-Naphthylamine
o-Nitroaniline
p-Nitroaniline
Nitrobenzene
5-Nitre-o-toluidine
o-Nitrophenol
p-Nitrophenol
N-Nitrosodiethylamide
N-Nitrosodimethylamine
N-Nitrosodi-n-butylanine
N-Nitrosomethylethylamine
N-Nitromorpholine
N-Nitrosopiperidine
N-Nitrosopyrrolidine
Parathion
Total PCBs
Pentachlorobenzene
PeCDDs
PcCDFs
Pentachloroethane
Protechloropitrobenzene

Pentachloronitrobenzene

Pentachlorophenol

Phenacelin

Phenanthrone

Phenol Phorate Phthalic acid Phthalic anhydride Pronamide Pyrene Pyridine ene Salrole Silvex 2.4.5-T 1,2,4,5-Tetrachlorobenzene **TCDDs** TCDFs 1,1,1,2-Tetrachloroethane 1.1.2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Toluene Toxaphene Bromoform 1.2.4-Trichlorobenzene 1,1,1-Trichloroethane 1.1.2-Trichloroethane Trichloroethylene Trichloromonofluoromethane 2.4.5-Trichlorophenol 2,4,6-Trichlorophenol 1,2,3-Trichloropropane 1,1,2-Trichloro-1,2,2-trifluoroethur tris-(2.3-Dibromopropyl)phosphati Vinyl chloride Xylenes-mixed isomers Antimony Arsenic Barium Cadmium Chromium (total) Cyanides (total) Cyanides (Amenable) Fluoride Lead Mercury Nickel Selenium Silver Sulfide

Thallium Vanadium



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY SULVEY

_ DO NOT WRITE IN THIS SPACE

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Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Ï	Ĭ		IIFORM HAZARDOUS	1. Generator's US	S EPA ID No.	Manifest Document No	2. Page 1	Informati	ion in the shaded areas required by Federal
	1		WASTE MANIFEST nerator's Name and Mailing Ad	<u> [] </u>	<u>.6</u>	01173	of A.State:M	law.	coment Number and
SIALE AL SIC-SIZ-7440 AND THE NATIONAL RESPONSE		MOREY 2059	CORP. UTSCONSTIL AMENDE, DOL	naec opove, j (83	(L 68515 (8) 964-2386		ESSI T	CERE	of the second
ו אינו אינו		4. Gen	nerator's Phone ()	6.	US EPA II	Number	D S D		
Ž		FNY1B	nsporter 1 Company Name FIRMENTAL MASTE SERVIC	es L	! USERAU	10170147 	D. Transpo	THE PARTY	
Y Y			nsporter 2 Company Name A TRANSPORTATION SYST	8. FMS 1	US EPA 10 11.11984	Number 7758/19			
	l	9. Desi	ignated Facility Name and Site	Address 10	. US EPA I	Number	G. State F	cility & 4D	
		M1CHT 36345	GAN RECOVER: 5.5TEMS, - YAN BOPN 80.	lf#.	NEORGO	175844			4-10-10-10-10-10-10-10-10-10-10-10-10-10-
	1	FROMEN.I	US, MI 48174	L			*************************************	# 1	
		11. US (HM	DOT Description (including Prop ID NUM		Hazard Class, and	12.Conta		13. Total uantity	14. Unit No.
V E		a.	THESE PROPERTIES HYDR	ovice, saluti	(H)			1/1 -	
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E N		Eger	gency Contact # (630)	964 - 23 00					<u></u>
		classi	ERATOR'S CERTIFICATION: I hereby ified, packed, marked, and labeled, ar	declare that the contents ad are in all respects in	of this consignment a proper condition for t	re fully and accura ransport by highw	tely described ay according 1	above by pro to applicable	per shipping name and are international and national
E	1	Hinn	mment regulations. n a large quantity generator, i certify t	hat I have a program in :	place to reduce the vo	lume and toxicity	of waste gene	rated to the	degree I have determined
	١	to be	economically practicable and that I have the seconomically practicable and that I have the the human health ration and select the best waste ma	ive selected the practical and the environment: C	able method of treatm DR: if I am a small qua	ent, storage, or or ntity generator, I I	sposal currellu nave made a g	A TABLE IL)
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General Instructions

Residual institutions before completing this form. This forcinals been also grow two we an all Apiton (2 deritypewintercomputer profest is firm paint pen may also ne used il pressiduw. Facial Ensure all popes are teobre.

Feveral and state (egulations require generalisks and transporters of hozal dous wisite and owners or operators or hazardox is waste treatment, storage, and disposal fabrices to use this form (8700-22) and, if necessary, the continuation sheet (Form 8700-22A) for both interliend introstate transportation of hazardoxis wiste as defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111). State regulations also require the use of this manifest for all regulated shipments of figure industrial waste as required in Part 121, of Act 451 of 1994, as amended (Part 121).

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 49CFR, Part 111, Part 121).

Additional information such as "Rejected Load Procedures", state assigned identification numbers, manifest forms, etc., can be obtained by contacting the Michigan Department of Environmenta, Quality (MDEQ Waste Management Division's (MMQ) informat Home Page at http://www.deq state millushimd or you may contact the Manifest Unit directly, at (517) 373-1217. Continuation sheets are not supplied by MDEQ.

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Item 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

Rem 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which case the total number of pages, counting the initial marifest page, should be shown

Rem 3. Enter the name of the generator and the mailing address to which the maintest should be mailed, if the address of the site at which the waste was placed into transportation is different from the making address record the site address in term J.

Rem 4. Enter a telephone number (including area chide; where an authorized agent of the generator can be reached in the event of an emergency and/or a paintal or total rejected total.

NOTE: The 24 hour emergency phone number required for a hazardous materials shipting paner may be different from the generators phone number.

Rem 5. Enter the company name of the first transporter who will transport the waste

Name 6. Enter the transporter's U.S. EPA, twelve orgit identification number. For Part 121 manifested shipments where a transporter poes not have a U.S. EPA, assigned number, a state assigned number is to be used.

Rom 7. If using a second transporter onter the company name

Rem 8. Enter the second transporter's U.S. EPA, twelve digit identification number. For Plut, 121 mail-fested shipments where a transporter does not have a U.S. EPA, assigned not be: a state assigned number is to be used.

NOTE: If more than two transporters are used the generator or third transporter shell initiate a continuation wheel. In term L of the consinuation sheet, the generator/transporter must copy the State manifest document number fested in from A. Every transport company used between the generator and the designed facility (except for intermediate ray or barge bransporters used between the meating for one transporter. It is used to intended to require multiple signatures for interface drivers working for one transporter. Item 2 is to be changed to reflect the added page(a). Continuation sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams.

Rem 9. Enter the company name and site address of the facility designated to receive the waste listed on this manifest.

Item 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned facility does not have a U.S. EPA assigned facility as a state assigned manufacture.

Rem 11. Enter an X in the HM box. If the waste is a hazardous material regulated by U.S. DOT. /See 49 CFR 172). Enter the required U.S. DOT shipping description including Proper Stipping Name, Hazard Class or Devision, ID Number (UNINA), and backing group for each waste as identified in 48 CFR 172. Additional information may also be required in this space, including technical name and reportable quantity references. For only Part 121 regulated wastes include an appropriate shipping description for the waste stream.

Rem 12. Enter the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry

DM = Metal drums, barrels kegs

DW = Wooden drum, barrels, kegs

DF - Fiberboard or plastic drums, parre's, kegs

DT = Dump Truck

TP = Tanks, portsole

TT = Cargo tanks (tank trucks)

TC = Tank cars

CY = Cylinders

CM = Motal boxes, cartons, cases (Including rolf-offs)

CW - Wooden boxes, cartons, cases

CF = Fiber or plastic boxes, cartons, cases

BA = Burlap, cloth, paper/plastic bags

Rem 13. Enter the total quantity of waste described on each line. Do not use awarnals or fractions

item 14. Enter the appropriate abbreviation for the unit of measure listed below

G = Gaillons (figuids only)

P = Pounds

T + Tons (2000 tb)
Y = Cubic Yards

L - Liters (liquids only)

K = Kilograms

M = Metric tone (1000 kg)

N = Cubic meters

MOR 000392

Items 15. The generator may use this space thind determinant interespectation, treatment, storage or discossion of a montexport information as noted in the "montexport information as noted in the international Grayment" instructions section is to be recorded their

from 16. The generator must read, point higher home, but in distance the spanishing of the

Item 17. Printitle nonle of the person accepting the waste on owner or the transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the dute of indeept.

flem 18. If applicable inntritie name of the person accepting the waste on behalf of the second transposter. That person must acknowledge acceptance of the waste described on the mainfest by a going and entering the date of repelot.

from 19. An authorized representative of the designated (or alternate) facility must note in this space any discrepancy in the waste shipment.

item 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the dute of receipt.

NOTE: MDEQ "Rejected Load Procedures" provides guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

Item A. A preprinted State manifest document number

item B - H. Muy be required by other states

Item 1. For hazardous wastes, enter the appropriate waste numbers found in P229 9212 through SCP9 9319 419 at 1, and 40 CFF RET Sutuants Clard Dill moze than one waste number, shequited to appropriately identify the waste, enter the applicational numbers in Item U. In selecting the most appropriate waste number the following hierarchy must be used l'acute waste (including Pland appre P). U froxic, K (scelluf tip urcos), non-apple E (non-specific siphies) and D (challanter stu). State inergulated wastes follow the same neterorny as federally regulated wastes. For Part 121 wastes which are not hazardous wastes enter the appropriate code listed below.

Miser Schams	SOFE
Promised of	5141
Crankcase Oil	017L
Contains and Water Solution Oils	0190
Otter 5.1 Deshibe in Hem 11 or item u)	02:1
Bride	022_
FCb .	,35eF
Case, wastes (Describe in frem 11 or item d)	0291
Antifieeze	ಭ ು ಚ

Item J. Guirmators are to use this space for the aire address if different from the making a cities noted in them 3, act to half waste codes, additional description for a Part 121 waste washowed in common cities extractions, updaywat of commingling authority as required in R299 9304(A).

Hem Killury any specific could which ecopy

Burnes for eine gy Recrysity	15	
Conditionally Exempt Small Quantity Generator	C	
Emergency Response Cleanup	E	
Household Generated	H	
Recycled Precious Merals	P	
Recycled, Reclaimed, Used or Reused	R	
Universal Wacte	U,	:

INTERNATIONAL SHIPMENTS

Exports: Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. From the United States.*

Imports: Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA. Unform Hazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, must complete the manifest as required in R299.9310.*

*Transporters of hazardous waste shipments must deliver a copy of the manifest to U.S. Customs when importing or exporting the waste across U.S. borders. Record the foreign waste manifest document number in term 15.

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates manifest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Send the write copy to MDEO no later than the tenth day of the month following the simpment. For stipments of wastes being transported to a designaled facility outside of Michigan when an out-of-state manifest is used, mail to the MDEO a photocopy of the manifest when the shipment is placed into transportation and mail a photocopy of the second generator manifest copy, when received

TRANSPORTER: Upon delivery to the designated (or alternate) feet by and that facility signs and dates the manifest, the canary banded copy will be returned to you. It more than one transporter is used, the manifest is to be copied and supplied to the previous transporter acknowledging the reduct of the shipment of the receiver of the shipment of the canary banded copy stays with the manifest until the shipment reaches the designated facility.

DESIGNATED FACILITY: Upon signing and dating the manifest as received, give the canary banded copy to the transporter. Peturn the blue banded copy to the generator. Mail the pink handed copy to the MDEO no later train the 10th day of the month following receipt of shipment.

ADDRESS ALL INDEQ MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
PO BOX 30038
LANSING MI 48909-7538

The public reporting burden for this corection of information is estimated to everage 31 minutes for generators, 16 minutes for transporters, and 16 minutes for treatment, storage and disposal sorbies. The record livetoning burden per response for this collection of information is estimated to average 6 minutes for generators, 6 minutes for transporters, and 6 minutes for treatment, storage and disposal isorbies. The burden associated with reading the regulations is estimated at 1 flour and 15 minutes annually. Burden means the total time, effort, or financial resources expended by persons to generate, marriality, retain, or disclose or provide information to or for a Federal tigency.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB numbers for EPA's regulations are isted in 40 CFR Plant 9 and 48 CFR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including through use of automated collection fidency of the Director, OPPE Regulatory Information Division, U.S. Environmental Protection Agency (2:37), 401 M St., S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs, Office of Management and Budget. Attention: Desk Officer for EPA, 725 17th Street, N.W., Washington, D.C., 20503. Include the OMB control number in any correspondence.



ALL SPILLS MUST BE REPORTED TO THE MICHIDAN POLLUTION EMENDENCY ALERTING SYSTEM, IN MICHIDAN AT 1-800-202-4706 OR OUT OF STATE AT 817-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-4662 24 HOURS PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

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Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US		Manifest Document No.	2. Page 1	is not	require	ne shaded areas ed by Federal
3	Generator's Name and Mailing Addre	11 1002541526d	<u> </u>	63.50		law.	00000	A Nimeter Control
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5	Transporter 1 Company Name OTPOMMENTER LEGIT GERMINE	ι. 6 .	US EPA ID	Number				
	Transporter 2 Company Name IHGG TRIGHTON ON FIFT LONG STEEL	8. M:	US EPA ID TL DOGAT		ES No	itaniosi ortei a Ric		
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11.	US DOT Description (including Proper HM ID NUMB		lazard Class, and	12.Conta No.	iners	13. Total Quantity	14. Unit Wt/Val	
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f' 16.	Special Handling Instructions and Adame ((れれい) じっかい まっ (たっぱり) で GENERATOR'S CERTIFICATION: I hereby de classified, packed, marked, and labeled, and government regulations.	ditional Information 유수 공격명화 clare that the contents are in all respects in p	of this consignment are proper condition for tra	insport by highwa	y according	g to applicabl	e interna	tional and national
1	If I am a large quantity generator, I certify that to be economically practicable and that I have present and future threat to human health an generation and select the best waste mana	selected the practicat d the environment; Of	ble method of treatmer R; if I am a small quant	nt, storage, or dis tity generator, I h	posal curre ave made a	ntiv avallable i	to me wr	nch minimizes the hinkmize my waste
	Printed/Typed Name		Signature	1. 1				Date
	Transporter 1 Acknowledgement of R	eceipt of Materials						Date
	Printed Types 110 11AS L	scken	Signature	Work	<u> </u>	lada A	<u>~</u>	1017/17
18.	Transporter 2 Acknowledgement of Ri Printed/Typed Name	sceipt of Materials	Signature			-#		Date Ionth Day Year
19.	Discrepancy Indication Space					·	L	
20.	Facility Owner or Operator: Certification Item 19.	of receipt of hazar	dous materials cove	ered by this ma	nifest exc	ept as noted	<u> </u>	Date
	Printed/Typed Name		Signature				M I	Ionth Day Year
A Fo	rm 8700-22 (Rev. 9/88)			· · ·	_	2002		EQP 5110

Secretal instructions

required in study respective completing the firm. The string has been not because to use to end about the hypewinesicamputer printer, a form point pen may a some used it results with a Soft Society or the soft in eg Die.

r acetas and state regulations regulating penulatives and transports and head topus will act all actions of ingerators, or nazignos a washe treatment, styrage, and disposal faulines to use this full it. (200 2a) and if classian, the continuation sheet (Form #700-22A) for both inter-and intrustate hallsty ration of riscall. ous waste as defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111). State ingulations Uso require the use of this maintest for all regulaters or present of liquid industrial wastelds (1.7) of L. Of ACT 451 IN 1894 BE STEPHEN LINES (\$24)

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 44CFP, Fort 111, Fart 121)

Additional information such as "Rejected Load Procedures", state assigned, deltafoot plantage, manefest forms, etc., can be obtained by contacting the Michigan Department of Environmental Quality (MOEQ). Weste Management Division's (WMD) Internet Home Page at: http://www.deq.state.mi/uniwmd.or contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MDEO

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Rem'1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 mainfested ship ments where a generator does not have a U.S. EPA assigned number; a state assigned number must be obtained and used. The generator of the waste must enter a unique five dig1 manifest document number (e.g. 00001).

Ram 2. Page number 1 of 1 should be recorded unless a continuation sham is used in which case the take number of pages, counting the initial manifest page, should be show

Item 3. Enter the name of the generator and the mailing address to which the manifest should be a when If the address of the site at which the waste was placed into transportation is different from the most ling address record the site address in Item J.

Flom 4. Error a telephone number including area coder where unitality and agent is the generator can be reached in the event of an emergering and or a part upon total rejected load

NOTE: The 24 hour emergency phone number responses for a hypotoxics materials structing paper may be different from the generator's phone number

Nem 5. Enter the company state of the first transporter will will fransport the wall to

from 6. First the transporters U.S. EPA, twelve digit identification quarter. For Part 121 or an instead shipments where a transporter times not rever by \$1000 PPA, as night nother a state use given in the contract.

Rem 7. If using a second trail pointer letter the number of any

Rem 8. Enter the second his apported a 1.5. EPA, two veiging internifolism commercially a second fested shipments where a manisporter exists not have a 45 st 55 A liasequiat homber and our in the connumber is to be used

NOTE: If more than two transporters are used, the generator or to rid transporter shot include of the wheel. In nem ${f L}$ of the continuation sheet, the penerator/transporter must copy the State may wet it ${f x}_i$ ment number lessed in Item A. Every transcent company used netween the generator and one income table to take the company of the complete transcent and the drivers working for one transporter. Hem 2 is to be oranged to inflied the ander page at 10 s triula to sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams

from 9. Enter the company name and site address of the facility designated to receive the weats listed on

Item 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned rumber, a state assigned number is to be used.

ttem 14. Enter acid in the AM box of the words is a papa in us material religious by 138. ECT in the 49. OFB 1720. Both this less real u.S. POT for obligateur of the lasting Projet Or pring five in the and Otessian Division of incrman such that, and parsonally also for even waste as its intend in 42.056 172. Appropriation mapping groups are gived on this apage including technology has a pard reprint by varily. references. For only Part 121 requisted wastes include an appropriate shipping description for the waste

Item 12. Enter the number of containers for éach waste and the appropriate aboreviations (sing below for the type of container. Each container type requires separate entry.

TM = Metal drume berreis kege

DW - Wooden drung bunklik knys

(A) Composid of Preshortings preside the later and the

Of Dimo Truck

TP = Ten < s. portable

T - Cargo lanks (tank truc+s,

i C = Turns cars

Conders

CM = Meta-boxes, carrons bases fr أفلؤن الثاء للعالم المحا

DW # Wooden boxes inartime (ase)

OF a Fiber or plastic poxes, purply 105589

BA = Burley, croth, peper/prastic bags

ttem 19. Enter the cotal quality of waste described on each fine. Do not use decimals or machous

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d = Galoni figuros origi

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MOR 000394

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INTERNATIONAL SHIPMENTS

Exports: Transporters must sign and enter the date the waste leaves the United States in item 15. The trimery exponer must identify the point of departure, from the United States,*

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AUCHESS ALL MIZED MANIFEST COPIES TO:

WAS IT MANAGEMENT DIVISION. MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909 7538

The public reporting burden for this collection of information is estimated to overage 3.1 minutes for generators, 16 minutes for barrisposters, and 16 or frequent is made in the collection of information is estimated to everage 6 minutes for generators, 6 minutes for transporters, and 6 minutes for treatment, storage and objects. The output associated with resolution is estimated with the order of the output associated with resolution or estimated at 1 minutes enrough (5 minutes enrough). Burden means the shall time effort, or finance; resources expended by consoning personate, maintain, retaining minutes enrough).

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Michigan Recovery Systems, Inc.





May 20, 1998

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SVCS.

Fax: (630) 365-3112

PHIL MEYER MOREY CORP 2659 WISCONSIN AVENUE DOWNERS GROVE, IL 60515

This Generator Approval Notification acknowledges the acceptability of waste material(s) into Michigan Recovery Systems, Inc. (MRSI) and ensures that this facility has the appropriate permit issued by federal and state regulatory agencies to properly transport, treat, and/or disposal of the waste material(s).

Approval Number Waste Common Name
D15198L MTS 001 TITRATION SOLUTION

The Approval(s) listed on the following page(s) are based upon information supplied to MRSI by your company. The generator is ultimately responsible for the accuracy and completeness of the characterization information provided and other information that was provided during the technical approval process. The generator must notify the MRSI Approvals Department immediately upon knowledge of any changes to this information.

The Approval(s) will expire on the date(s) noted on the following page(s). Any new Approvals obtained from MRSI on future business will be valid for a period of one (1) year from the date of issuance. Within 30 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

MOR 000395

"ASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

all spills must be reported to the michigan pollution emergency alenting system. In Michigan at 1400-2024708 on out of state at 517-373-7860 and the National Response Center at 1400-4244802 24 hours per day.

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Required under authority of Part 111 and Part 121 of Act 451, 1994, as

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR: 43CFR: Cott 171, Part 127).

Additional information such as "Rejected Load Procedures", state assigned that faction can bers many test forms, etc., can be obtained by contacting the Michigan Department of Eos room email: Quality (MDEQ), Waste Management Division's (WMD) Internet Home Page at: http://www.deg.stste.mi.us/wmd.or.you.may contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MCEQ

Complete all items on the mentiost. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Rem 1. Enter the generator's U.S. EPAtweive digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

Rem 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which case trie total number of pages, counting the milial manifest page, should be shown

Rem 3. Enter the name of the generator and the mailing address to which the manifest knowled by mailed If the address of the site at which the waste was placed into transportation is different from the making address record the site address in Item J

Rom 4. Enter a telephone number (including prea code) where an authorized agent of nia gene attornan be reached in the event of an emerge roy and or a partial or tutal relected toda

NOTE: The 24 hour emergency phone rumber reput ed for a huzaroous materials stricting phone may be different from the generator's prione number

Rem 5. Enter the company name of the first transporter who will paraport the waste-

flom 6. Enter the transporter's U.S. EPA (welve digit identification number. For Part 121 man feeted shipments where a transporter does not have also bit FA assigned to indien watate assigned in indient watate.

Rem 7. If using a second transporter enter the roma arvinance

Rem 8. Enter the second Sunsporter on ID FITS two years on the second supporter of the second supporter of ID FITS two years as U.S. CIA class, continuous control of the second supporter of the seco number is to be used

NOTE: If more than two transporters are used it is generator or third transporter sharinful are allowed by allowing the formal are used to be generator or third transporters are used to be generator or third transporters. wheel. In rem L of the continuation sheet, the generator/transporter must copy the State maintest document number lested in Item A. Every paraport company used between the generator and the besiden facility (except for intermediate raise of transpirates sporters used between the riving bases, and the side of the designated facility) must be fisted. If it is some intended to require multiple sign bullets in the control of drivers working for one transporter. Here 2 is to be analiged to reflect the update page (s). Continue sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to fist additional waste streams.

from 9. Enter the company name and site address of the facility designated to receive the waste listed on

Nam 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested ehipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

Rem 11. Enter an X in the HM pox. If the waste is a nozarrious material regulated by J.D. D.F. (See 49) OTH 1722. Enter the liabured OIS 1901 singlighing destriction including Proper Shipping frame missand Crass or Dividion 10 humber (lith hA), and cacking group for euron waste as identified in 49 OFR 172. Androne: imministror may also be required in this space, including feoticical name and reportable quantity. references. For only Part 121 regulated wastes include an accrophiste shipping description for the waste.

Rem 12. Enter the number of contamers for each waste and the appropriate abbreviations tisted below for the type of container. Each container type requires separate entry.

DM = Metal drume barrels kees

Wooden arunt, barrels, seds

DF . Fiberboard or plastic froms parrels kegs

Di . Domo Trava

TP - Tanks, portate

TT = Cargo sanks (tank trucks)

i die Tank care in nours

CM = Muta-boxes, cartoris, cases (including roll-offs)

CW - Wooden boxes cartons cases
CP = Fiber or plastic boxes, cartons cases

BA - Burlay, cloth, paper/prastic bugs

Neminal Enter the roughquarthy of waste described on each line. Do not use decimals or multions.

Perit (4) entre the appropriate absolute allocates and the colors of the part of expension

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from 18. If applicable, prior the name of the person according the waste on berial of the swell unit. section of the section of the section in the constituency of the wissing discribed in the maintespay of the or are the rigitifie pate of race pri-

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Rem 20. First the transmint the person accepting the waste on borialt of the designated fact μ . This person must accomplished of the waste described on the manifest by eighing and other ρ . the duly of recent

NOTE: MCFQ (Belouted Load Procedures) provides guidance for partial or total load rejections.

Only the following information in the shaded area is a State of Michigan requirement:

item A. A preun ited State manifest document number

Ram Bir H. May be required by other states

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Household Generated Recycled Precious Metals Recycled Reclaimed, Used or Reused

Universal Waste

INTERNATIONAL SHIPMENTS

Exports: Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. From the United States *

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timports. Stigmanns of hazardous and fractitative volution works must be accompanied with a 1.3 time. is form Phasilibous Waste Manifest. Any pero in hinotiching as the U.S. Importer, as defined a Filatini sriprimikete the marifest as required in R299,9310.1

*Transporters of hazardous waste attipments must deliver a copy of the monifest to $0.5\% \times 0.00\%$ on -0.00%importing or exporting the waste appose U.S. burders. Fledgra the foreign waste mail term in princip

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and 10% obniver) remove the white and gold banded popies as U give the combines of the manifest cooks, i.e. of the co-porter. Send the white copy to MCEO not see that the rentador of the combines of whightheir ip their For this ments of wester being transported to a designated facility addide of Michigan which in our of stude missions is used imay to the MDE. If a pricinicacy of the manifes, when the soft ment will we set will trans-protation and mail a phonocopy of the second generator manifest copy, who is showed.

TRANSPORTER: Litter delivery to the designaled for offernale) for my or differ femiliar such as a condition the monified, the canney brindled copy with the returned by you. If have than one transaction is useful from the control of the control of the control of the specific acceptance of the control of the c the designated facility

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AUDRESS ALL MIED MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

The public reporting bunken for this collection of information is estimated to everage 31 minutes for generators, 16 minutes for biasporters, and 16 minutes for beatment, storage, and object in this collection of information is estimated to average 5 minutes for generators, 5 minutes for transporters, and 6 minutes for beatment, sturage, and disposal "touces." The burder adsolution of the collection of information is estimated to average 5 minutes for generators, 5 minutes for transporters, and 6 minutes for beatment, sturage, and disposal "touces." The burder adsolution of the collection of the col

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LAND DISPOSAL RESTRICTION & CERTIFICATION FORM

Please check the facility you are shipping to: Michigan Disposal Waste Treatment Plant (Stabilization and Treatment) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 000 724 831

Wayne Disposal, Inc. Subtitle C Landfill (Secure Hazardous Waste Landfill) 49350 N. I-94 Service Drive Belleville, MI 48111 EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc. (Solvent Recycling, Fuel Blending & Wastewater Treatment) 36345 Van Born Road Romulus, MI 48174 EPA ID # MID 060 975 844

Generator Name	Morey	Corp.	Generator USEPA ID No. ILD025415266				
Generator Address	2659	Wisconsin A	Av. Downers Grove, IL. 60515				
State Manifest No	KM	460,861	Manifest Doc. No. 0 H				
INSTRUCTIONS In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.							

- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide-LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	D001	WWW D	High TOC	BCDEF GHIJKL MS	
11.B		O www		A B C D E F G H I J K L M S	
11.C		□ www □ ww		A B C D E F G II I J K L M S	
11.D		O NWW		A B C D E F G H I J K L M S	·

knowledge and informs	tiniormation s	ubmitted on this and all asso		iplete and accurate to the best of my
Generator Signature	The	11/4	Title TA	z MAT NGR.
Printed Name	PHIL	Myer	Date	11.4.98

HOW MUST THE WASTE BE MANAGED?

For S, circle the appropriate response for the 3 italicized options:

MOR 000398

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A (CIRCLE ONE) (CIRCLE ONE) CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment

- A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
- B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
- C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE. FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY. HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- H. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- I. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOYE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT TO 263.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penaltics for submitting a false certification, including the possibility of fine and imprisonment.
- I. THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penaltics for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOYE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of line and imprisonment.



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

DO NOT WRITE IN THIS SPACE

ATT.

"	**	MILE	***	11110	SIACL	
DI	S.			REJ.		PR.

mequired under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Ple	Pase print or type				Fo	orm Approved. OM	B No. 2050-0039
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's		Manifest Document No.	2.Pag of		tion in the shaded areas required by Federal
	3. Generator's Name and Mailing Admitted CORP。 (元元) 14 (元任代代代代代代代代代代代代代代代代代代代代代代代代代代代代代代代代代代代代	idress अक्षास्त्रः क्षास्त्रस्य				मिहाराम्	Additional to the same of the same of
	5. Transporter 1 Company Name FNPTP(計算科T): (科STE SEPUTI	the.	6. US EPA 10 LL POMPRING			ors continued.	
	7. Transporter 2 Company Name 112.11890 TRBHSPORTATION 5:5	TEMS	8. US EPA ID (LD384		25.7	BUILDER TO	ABOTO CALEBOA
	9. Designated Facility Name and Site MICHIERRA PECCUTER (SSECONS, 30045 PER EOPH RO, RUMMEDS, MI 48474		10. US EPA ID N1 ERICAG		G/SI		- E
	11. US DOT Description (including Property)		e, Hazard Class, and	12.Conta	Type	13. Total Quantity	14 Unit (i)
	्र व्यवस्था अस्थानस्य स्था स्थापनाम् । - व्यवस्थानस्य स्था १ स्थापना	4年(1944年)	८ (स अस्प्रतात	001	ंपन	<i>0</i> 0 5 5	
A T O R	कि हिस्सी हरू क्रीडिम्सीट है। उस्ति के			001	(પ)	0 005	
	c.						
	d.						
	Augustional Teachibition for Mator						
	15. Special Handling Instructions and Fuer gendy Contract # (630)		ion	<u> Zugʻindi, ⊘ti</u>	es sarda	geleen zween en	er er i brown parket in der e
	16. GENERATOR'S CERTIFICATION: I hereby classified, packed, marked, and labeled, a government regulations. If I am a large quantity generator, I certify to be economically practicable and that I h present and future threat to human health generation and select the best waste markets.	declare that the conte nd are in all respects that I have a program ave selected the pract and the environment	In proper condition for tr in place to reduce the vol icable method of treatme : OR: if I am a small quer	ansport by highwa turne and toxicity o ent, storage, or dis ntity generator, I h	ay according to the second sec	rding to applicable generated to the urrently available	e international and national degree I have determined to me which minimizes the
V	Printed/Typed Name	•	Signature				Monun Day, Year
	17. Transporter 1 Acknowledgement of Printed/Typed Name	Receipt of Materi	als Signature				Date Month Day Year
P)	18. Transported 2 Acknowledgement of	Receipt of Materi	als	<u> </u>	уг <u></u>		Date
ORTER	Printed/Typed Name		Signature			<u></u>	Month Day Year
-4-03-	19. Discrepancy Indication Space						
ţ	20. Facility Owner or Operator: Certification 19.	ion of receipt of ha	zardous materials cov	ered by this ma	nifest	except as noted	Date
	Printed/Typed Name		Signature				Month Day Year
3./	A Form 8700-22 (Rev. 9/88)	art Coult in take ggages, and	CONTRACTOR OF STATE OF STATE	SISY			EQP 5110 Rev. 10/96

ALL SPILLS MUST BE REPORTED TO THE MICHIDAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIDAN AT 1-800-292-4706 OR GUT OF STATE AT 5:7-373-7880 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-802 S4 HOURS PER DAY.

<u>General instruction</u>

Read as instruments before temperating this form. This followings precingles in provinces on a 10 orbit of the typewriterroomputer printer; a firm point pen may also by lised it to such a 1. Environ hopes also Service.

Plendrial and state regulations require geno more and clarispic will oil hexamples will be will be isperators of hazardous waste treatment, storage, and disposal facilities to use this form (6700-22) and, if necroseary, the continuation sheet (Form 8700-22A) for both inter-land intrastate transportation of hazard. our waste as defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111). State regulations usu require the use of this manifest for all regulated shuments of high duratustrial waste as 1949. 121 MA:t 451 [11954] as amendal. Flan 1211

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 49CFR, Fort 11), Fart 121)

Additional information such as "Rejected Load Procedures", state assigned, declar nation dumbers, in fest forms, etc., can be obtained by contacting the Michigan Department of Environments. Quality (MDEQ), Waste Management Division's (WMD) Internet Home Page at: http://www.deg.state.mii.us/wmd.or.you.may contact the Manifest Unit directly at (\$17) 373-1217. Continuation sheets are not supplied by MDEG

Complete all hems on the manifest. Enter "N/A" if any item does not apply. I eave items that may be needed later blank, such as second transporter.

Rem 1. Enter the generator's U.S. EPA livelye digit identification number. For Part 121 manifested ship ments where a generator does not have a U.S. EPA assigned number; a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e g. 00001)

Item 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which case trie total number of pages, counting the initial manylest page, should be show-

Rem 3. Enter the name of the generator and the melting address to which the manifest strougd be mailed If the address of the site at which the waste was placed into transportation is different from the making address record the site address in Item J

Nom 4. Enter a telephone number (no uping area code, where an authorized ag. if if it is generator osa be reached in the event of an emergency and or a pair wild rotative elithed toldo

NOTE: The 24 hour emergency phone number tenuned for a nazarbous materials, there is paper may be different from the generator's phone number

Rem 5. Enter the company haline of the first transporter who will banaport the waste

Item 6. Error the transporter's U.S. EPA, twelve digit identification number. For Part 101 man hated shipments where a transporter does not have a true? S.F.F.A and preneror time aspectations of the control of the co be used

Rem 7. If using a second transporter lenger the company rish e

Rem 8. Enter the second transporter sitts 6.9.6.69A inveice does then thought indenney in the last it in fested shipments where a transporter bit is not travely a bit of 1.6A. Assign of non-arrival course. number is to be used

NOTE: If more than two transponent are used the ger states on the disensponer shot make a continuation wheet in nem L of the continuation sheet the generator/transporter must copy the State manufact draw ment number lested in Item A. Every transport of party uses centively in a generator and replace years. The facility (except for information to all on the plan sporting strength in gige mature). The sporting facility (except for information to all on plan plan sporting speak need need to all on the sporting speak need to expect the sporting sporting speak need to expect the designated facility) must be fisted. This is not introduce to exquire matures synthetis for a sporting speak need to expect the sporting speak need to expect the sporting speak need to expect the sporting speak need to expect the speak need to expe drivers working for one transporter. Item 2 is to be analoged to reliect the addard page:3). Continuation be appropriately completed in their entirety and properly distributed, Continuation sheets may not be used to list additional waste struzme.

from 9. Enter the company name and site address of the facility designated to receive the waste listed on

Rem 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used

from 11. Enter an X in the HM box. If the waste is a nazardous mular a Leadlined by U.S. DOY. /Sac 49 OFR 172). Enter the required U.S. DOT shipting description, notified phase of highly Name. Hazard Cass or Clusted. 'O Nur ber (UNNA), wild croking group for each waste as centired in 44 OFR 172. Additional histormation may also be required in this space, including technical name and reportable quantity references. For only Part 121 regulated wastes include an appropriate shipping description for the waste

from 12. Enlet the number of puntamers for each waste and the appropriate ubit is allorish stell below for the type of container. Each container type requires separate entry

CM = Metal drums barrels kees

DW - Wooden drum barreis knos-

DF - Pinerboard or plastic drums, ball of sixegs

CT - Dump Truck TP = Tanks, contable

TT = Cargo tanks (tank trucks)

TC = Tank cars

CY - Cylindera

CM = Metal boxes, cartons, cases (including roll-oils)

OW a Wooden boxes partons cases

OF a Fiber or blest o boxes, pand is it uses

BA - Buriao, cloth, paperiplastic Laus

Rem 12. Enter the total quantity of waste described on each line. Co not use decimals or nactions.

ftem 14. Enter the appropriate above of or the the unit of measure releasing the own

G = Gallons (Louida ontv)

Pounds Tools (2000 fb.)

Y = October Yallos

L. Luters (liquids only) K = Kibbrams

M - Metric tone (1000 kg) N & Cubic merera

MOR 000401

them 10 In the year of the may use this space to incheate special housest taken it comest, closage or, and a store region varVExcert information as noted in the finlemations. Immort instructions Section is the line it ere

denisa Steller 111.0

from 17. Starting currence we somaccepts grownware of timbers to difference order. That promust appropriate general and a waste described out the spanned by signing and a resolution of A CHARLE

Rem 18. If applicable, print the name of the purson accents githere as you becaut of the survival in the control of the manner of the control of the amore service conducting of a lead-

Rom 19. And an extrative reasonable out the unit of a professional version, if you can be seen on a subject of discretianny in the waste shiphient

Item 20. Print the hall elial the person accepting the waste on certain of the designated from your had person must acknow as to acceptance of the waste describer on the manifest by signing an time song

NOTE: MCCC "Rejected Load Pronedules" provides guidance for numbal or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

Hem A. A cress rited State manifest are union han her

ham Bi-H. May be required by other states

Item 1. For hace to is wasted in the acting ate wastein, noted bound in P229 9210 in a Herri III for this book while the property of the actification whether the property is a recommendation of the actification waste number me following hierarchy must be liedd i ac de woare find only hond a lid. Ff. Crafe 35 FA 192 institution of the control of the construction of the construction of the control wasted eiter the in propriate code inted below

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Emergency Response Cleanup Household Generated Recycled Procious Merals

Recycled, Recigimed, Used or Reused Universal Waste

INTERNATIONAL SHIPMENTS

Exports: Transporters must sign and enter the date the waste feaves the United States in Item to Time primary exporter must identify the point of departure, from the United States.*

Imports. Shipments of hozard run and Part 121 regulated wastes must be accompanied by a d S. ESA. chiforn Histardous Waste Manifest. Any person functioning as the U.S. Impoder, as defined a Post 111. hust complete the man fest as required in RZ90 9310 f

Transporters of hazardous waste shipments must deliver a complifitie in annust to U.S. € 1.00 miles importing or exporting the weste excess U.S. horders. Fledous the foreign waste mainted too unnit Ca * 1,6* Jen 15

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and with a printest). remove the white and gold banded overes and give the remainder of the manifest one-us. The bish batter. Set one write conditions the Bon source or all the term allocations are in the Wing major principles. En at principle of wester being transported to a declarated facility buttade of Michigal where en outsitistical manifest is used in a line to MSE Bia on priciple of the manifest uneen the content wow enrolls transpolitical and a promoting of the second generator to the copy which three year

TRANSPORTER: Tipon delivery to the designated for othermote? Up 1. If and that fining significant datus the manifest, the carery banded clear will be returned to you. If the than one transporter it would be ingle het ditabe Copert and wyor eshorms previns tanspults i cknowlargina he in his offers show his ning a chestopasporter. The canny be interpopristaya each a manifest in inchina and treat a the designated facility

DESIGNATED FACILITY, lived is giving discribing the markfest as received, give the civil vivil and id-" 5'p tot e Convito White Imports (1) the control of the control

ADDRESS ACT. MIDEO MANIFEST CORIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

The public reporting burden for this collection of information is estimated to everage 31 minutes for generators 16 minutes for berisponers, and 16 minutes for triangular and disposal of the collection of the minutes for generators, 6 minutes for triangular and 6 minutes for triangular and disposal of the collection of the formation is estimated to average 6 minutes for generators, 6 minutes for triangular and 6 minutes for the disposal of the collection of

An expension group work conduct for socions or lend in person is not required to respond to its confection of information unities at displays a currency valid OMB control number. The OMB indicates a currency valid OMB in 3 and 43 CFR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for resucing the burden, violating and up the collection for any other aspect of this collection, including suggestions for resucing the burden, violating and up the collection for t

List II a b	ne waste D0		(K)	k the appropriate box for Non-Wastewater () Wa Non-Wastewater () Wa	astewater c	()	Non-Wastewater ()	Waster
				nibition levels exceeded t 40 'Treatment Standards			ne applicable hazardou	s wast
-			Line Iter	n #:		Wastewater	Non-Wastewater	
11a.	11b.	Present 11c.	11d.	Constituents of Con	ncern CAS#	mg/l or Technology Code	mg/l or Technology Code	
1. Lis	ited Haz	ardous	Wastes	F001,F002,F003,F004, spent solvents:	F005-Solvents v	vastes that contain any	of one or more of the	followi
				Acetone	67 - 94-1	0.28	160	
				Benzene	71-43-2	0.14	10	
				n-Butyl alcohol	71-36-3	5.6	2.6	
				Carbon disulfide	75-15-0	3.8	NA	
				Carbon tetrachloride	56-23-5	0.057	6.0	
				Chlorobenzene	108-90-7	0.057	6.0	
				o-Cresol	95-48-7	0.11	5.6	
				m-Cresol	108-39-4	0.77	5.6	
				p-cresol	106-44-5	0.77	5.6	
				Cresol-mixed isomers	1318-77-3	0.88	11.2	
				Cyclohexanone	108-94-1	0.36	NA	
				o-Dichlorobenzene	95-50-1	0.088	6.0	
				Ethyl acetate	141-07-6	0.34	33	
				Ethyl benzene	100-41-4	0.057	10	
				Ethyl ether	60-29-7	0.12	160	
				Isobutyl alcohol	78-83-1	5.6	170	
				Methanol	67-56-1	5.6	NA	
				Methylene chloride	75-09-2	0.089	30	
				Methyl ethyl ketone	78-93-3	0.28	36	
				Methyl isobutyl ketone	108-10-1	0.14	33	
				Nitrobenzene	98-95-3	0.068	14	
				Pyridine	110-86-1	0.014	16	
				Tetrachloroethylene	127-18-4	0.056	6.0	
	`			Toluene	108-88-3	0.080	10	
				1,1,1-Trichloroethane	71-55-6	0.054	6.0	
				1,1,2-Trichloroethane	79-00-5	0.054	6.0	
				1,1,2-Trichloro-1,2,2-	75-00-5	0,004		
					70.40.4	0.007	30	
				trifluoroethane	76-13-1	0.057		
				Trichloroethylene	79-01 <i>-</i> 6	0.054	6.0	
				Trichloromonofluoro-				
				methane	75-69-4	0.020	30	
				Xylene-mixed isomers	1330-20-7	0.32	30	
				F003 and/or F005 solve following three solvents	ent wastes that co as the only listed	ontain any combination I F001-F00S solvents:		
				Carbon disulfide	75-15-0	3.8	4.8 mg/LTCLP	
				Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP	2
				Methanol.	67-56-1	5.6	0.75 mg/l TCLP	MOR 000402
				F005 solvent waste cont	aining 2-Nitropro	pane as the only listed	F001-5 solvent:	Õ
				2-Nitropropane	79-46-9	WETOX or CHOXD	INCIN	$\breve{\kappa}$
				opi opano	, 0 , 0 0	fb CARBN; or INCIN		5

110-80-5

BIODG or INCIN

INCIN

2-Elhoxyelhanol

				Waste	If applicable	c	7	realment Standard
				Code	Subcategory	: 	and	d/or prohibition levels
						· · · · · · · · · · · · · · · · · · ·		
	alifornia	list W	aste	This shipment contains ha	zardous waste	subject to addition	nal RCR/	A Section 3004(d)
•		2.51		California List waste treatm				, , ,
				_ Liquid waste with PCB's >5	50 ppm			
				Liquid waste that contain h	•			
				1,000 mg/l or 1000 mg/kg (nonliquids).(11	NCINERATION) (H	OCs fou	nd in 40 CFR 268.32.
				Appendix III)				
	· ——			Nickel (liquid waste)>134 pThallium (liquid waste) >136				
На	72140115	Waste	Chara	cteristics				
110	2210003	, masic	Onara			ation are autilities d	to a deim .	
				No additional hazardous wa require treatment beyond th			by this v	vaste which would
X				Treatment standards for the			racterist	ics exhibited by this
				waste are indicated below.				•
	Check N	anifest l	Line Ite	em #:		Wastewat	er	Non-Wastewater
		Present				mg/l or	_	mg/l or
1a.	116.	11c.	11d.	Constituents of Concerr	CAS#	Technology (Code	Technology Code
<u> </u>	<u>.</u>			_ D001-Ignitable Hi TOC(≥10		N/A		RORGS or CMBST
				_ D001-Ignitable Liquids exce managed in non-CWA or	•	DEACT & meet or RORGS or C		DEACT & meet 268.48 or RORGS or CMBST
				managed in non-CVVA or	equivaleno	or Nongs or C	101021	
				non-Class 1 SDWA system	nie			OF RONGS OF CIVIDS I
				non-Class 1 SDWA system D001-Ignitable Liquids exce		DEACT		
				D001-Ignitable Liquids exce	pt Hi TOC	DEACT SDWA systems		DEACT
_				D001-Ignitable Liquids exce managed in CWA or equiv	pt Hi TOC /alent/Class 1	SDWA systems	268.48**	DEACT
				D001-Ignitable Liquids exce managed in CWA or equiv D002-Corrosive managed in	pt Hi TOC valent/Class 1 non-CWA	SDWA systems DEACT & meet 2	268.48 **	DEACT
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				D001-Ignitable Liquids exce managed in CWA or equiv D002-Corrosive managed in or equivalent/non-Class1 S D002-Corrosive managed in equivalent/Class1 SDWA s D004-Arsenic	pt Hi TOC valent/Class 1 n non-CWA SDWA system n CWA or systems 7440-38-2	SDWA systems DEACT & meet 3 s DEACT	268.48 **	DEACT & meet 268.48* DEACT 5.0 mg/l EP or TCLF 100.0 mg/l TCLP 1.0 mg/l TCLP
				D001-Ignitable Liquids exce managed in CWA or equiv D002-Corrosive managed in or equivalent/non-Class1 S D002-Corrosive managed in equivalent/Class1 SDWA s D004-Arsenic D005-Barium D006-Cadmium D007-Chromium (Total)	pt Hi TOC valent/Class 1 n non-CWA SDWA system n CWA or systems 7440-38-2 7440-39-3 7440-43-9 7440-47-3	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0	268.48 **	DEACT DEACT & meet 268.48* DEACT 5.0 mg/l EP or TCLF 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP
				D001-Ignitable Liquids exce managed in CWA or equiv D002-Corrosive managed in or equivalent/non-Class1 S D002-Corrosive managed in equivalent/Class1 SDWA s D004-Arsenic D005-Barium D006-Cadmium D007-Chromium (Total)	pt Hi TOC valent/Class 1 n non-CWA SDWA system n CWA or systems 7440-38-2 7440-39-3 7440-47-3 7439-92-1	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0 5.0 5.0	268.48 **	DEACT DEACT & meet 268.48* DEACT 5.0 mg/l EP or TCLF 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or TCLF
				D001-Ignitable Liquids exce managed in CWA or equiv D002-Corrosive managed in or equivalent/non-Class1 S D002-Corrosive managed in equivalent/Class1 SDWA : D004-Arsenic D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury	pt Hi TOC valent/Class 1 n non-CWA SDWA system n CWA or systems 7440-38-2 7440-39-3 7440-47-3 7439-92-1	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0		DEACT DEACT & meet 268.48* DEACT 5.0 mg/l EP or TCLP 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP
				D001-Ignitable Liquids excemanaged in CWA or equivalent/non-Class1 SD002-Corrosive managed in equivalent/Class1 SDWA: D004-Arsenic D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory)	pt Hi TOC valent/Class 1 n non-CWA SDWA system n CWA or systems 7440-38-2 7440-43-9 7440-47-3 7439-92-1 v 7439-97-6	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0 5.0 N/A		DEACT DEACT & meet 268.48° DEACT 5.0 mg/l EP or TCLP 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l TCLP IMERC or RMERC
				D001-Ignitable Liquids excemanaged in CWA or equivalent/non-Class1 SD002-Corrosive managed in equivalent/Class1 SDWA: D002-Corrosive managed in equivalent/Class1 SDWA: D004-Arsenic D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury	pt Hi TOC valent/Class 1 n non-CWA SDWA system n CWA or systems 7440-38-2 7440-43-9 7440-47-3 7439-92-1 v 7439-97-6	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0 5.0 5.0		DEACT DEACT & meet 268.48* DEACT 5.0 mg/l EP or TCLF 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or TCLF
				D001-Ignitable Liquids excemanaged in CWA or equivalent/non-Class1 Strategy D002-Corrosive managed in equivalent/Class1 SDWA Strategy D004-Arsenic D005-Barium D006-Cadmium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory)	pt Hi TOC valent/Class 1 non-CWA SDWA system CWA or systems 7440-38-2 7440-39-3 7440-47-3 7439-97-6 7439-97-6	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0 5.0 N/A N/A		DEACT DEACT & meet 268.48° DEACT 5.0 mg/l EP or TCLP 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l TCLP IMERC or RMERC
				D001-Ignitable Liquids excemanaged in CWA or equivalent/non-Class1 SD002-Corrosive managed in equivalent/Class1 SDWA: D002-Corrosive managed in equivalent/Class1 SDWA: D004-Arsenic D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory)	pt Hi TOC valent/Class 1 non-CWA SDWA system CWA or systems 7440-38-2 7440-39-3 7440-47-3 7439-97-6 7439-97-6	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0 5.0 N/A		DEACT DEACT & meet 268.48* DEACT 5.0 mg/l EP or TCLF 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or TCLF IMERC or RMERC
				D001-Ignitable Liquids excemanaged in CWA or equivalent/non-Class1 SD002-Corrosive managed in equivalent/Class1 SDWA: D002-Corrosive managed in equivalent/Class1 SDWA: D004-Arsenic D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury subcategory)	pt Hi TOC valent/Class 1 non-CWA SDWA system CWA or systems 7440-38-2 7440-39-3 7440-47-3 7439-97-6 7439-97-6 7439-97-6	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0 5.0 N/A N/A	MOR 000403	DEACT DEACT & meet 268.48° DEACT 5.0 mg/l EP or TCLP 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l TCLP KMERC or RMERC 0.2 mg/l TCLP N/A
				D001-Ignitable Liquids excemanaged in CWA or equivalent/non-Class1 SD002-Corrosive managed in equivalent/Class1 SDWA: D002-Corrosive managed in equivalent/Class1 SDWA: D004-Arsenic D005-Barium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory)	pt Hi TOC valent/Class 1 non-CWA SDWA system CWA or systems 7440-38-2 7440-39-3 7440-47-3 7439-97-6 7439-97-6 7439-97-6	SDWA systems DEACT & meet 2 s DEACT 5.0 100 1.0 5.0 5.0 N/A N/A N/A		DEACT DEACT & meet 268.48° DEACT 5.0 mg/l EP or TCLP 100.0 mg/l TCLP 1.0 mg/l TCLP 5.0 mg/l TCLP 5.0 mg/l EP or TCLP IMERC or RMERC RMERC 0.2 mg/l TCLP

3. Hazardous Waste Characteristics (con't)

For non-wastewater waste streams that have any of the hazardous waste characteristics on this page checked, include the Inderlying Hazardous Constituents Form with this LDR form.

Check		Manifest Line Item # If Present			Wastewater mg/l or		Nastewater	
1a.	116.	11c.	11d.	Constituents of Concern	CAS #	Technology Code	Techn	ology Code
				D012-Endrin	72-20-8	BIODG or INCIN	0 13	
				Endrin Aldehyde	7428-93-4	BIODG or INCIN	0,13	& meet 268 4
				_ D013-Lindane				
		_		alpha-8HC	319-84-6	CARBN or INCIN		& meet 268.4
				beta-BHC	319-65-7	CARBN or INCIN		& meet 268,4
				delta-BHC	319-68-8	CARBN or INCIN		& meet 268.4
				gamma-BHC (Lindane)	319-65-7	CARBN or INCIN		& meet 268.4
				D014-Methoxychlor	72-43-5	WETOX or INCIN	0.18	& meet 268.4
_				D015-Toxaphene	8001-35-2	BIODG or INCIN	2.6	& meel 268.4
_			-	D016-2,4-D	94-76-7	CHOXD, BIODR or INCIN	10.0	& meet 268.4
				D017-2,4,5-TP	93-72-1	CHOXD or INCIN	7.9	& meet 268.4
_				D018-Benzene	71-43-2	0.14	10.0	& meet 268.4
_				D019-Carbon Tetrachloride	56-23-5	0.057	6.0	& meet 268.4
-				D020-Chlordane	57-74-9	0.0033	0.26	& meet 268.4
-				D021-Chlorobenzene	108-90-7	0.057	6.0	& meet 268.4
-				D021-Chloroform	67-66-3	0.046	6.0	& meet 268.4
-				D023-o-Cresol	95-48-7	0.11	5.8	& meet 268.4
-				D024-m-Cresol	108-39-4	0.77	56	& meet 268 4
-				D025-p-Cresol	106-44-5	0.77	5.6	& meet 268.4
-				D026-Total Cresol	1319-77-3	0.88	11.2	& meet 268.4
-				D027-p-Dichlorobenzene	106-46-7	0.090	G.O	& meet 268.48
-				D028-1,2-Dichloroethane	107-06-2	0.21	6.0	& meet 268.48
_				D029-1,1-Dichloroethylene	75-35-4	0.025	6.0	& meet 268.48
_				D030-2,4-Dinitrotoluene	121-14-2	0.32	140.0	& meel 268.4t
				D031-Heptachlor	76-44-8	0,0012		& meet 268.48
-				Heptachlor epoxide	1024-57-3	0.016	0.066	& meet 268,48
				D032-Hexachlorobenzene	118-74-1	0.055	10.0	& meet 268.48
				D033-Hexachlorobutadiene	87-68-3	0,055		& meet 268.48
_				D034-Hexachloroethane	67-72-1	0.055		& meet 268.48
-				D035-Methyl ethyl ketone	78-93-3	0.28	36,0	& meet 268,48
-					98-95-3	0.068	14.0	& meet 268.48
_				D036-Nitrobenzene	87-86-5	0.089		& meet 268.48
_				D037-Pentachlorophenol	110-86-1	0.014		& meet 268.48
_				D038-Pyridine		0.056		& meet 268.48
				D039-Tetrachloroethylene	127-18-4	0.054		& meet 268.4
_				D040-Trichloroethylene	79-01-6	0.018		& meet 268.48
_				D041-2.4.5-Trichlorophenol	95-95-4	0.015	7.4	& meet 268.48
				D042-2.4.6-Trichlorophenol	88-06-2	0,033	8.0	& meet 268 48
				D043-Vinyl Chloride	75-01-4	0.21	0.0	

I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and impresonment

Company Name	MOREZ	CORP.	 -1 20
	(/ (-1)	M /	Date: 10.21.97
luthonzed Signature.		11/2	Date.

MICHIGAN RECOVERY SYSTEMS, das Underlying Hazardous Constituents Form

alpha-BHC p-Dichlorobenzene Isobutyl alcohol 1,1,2,2-Tetrachloroethane beta-BHC Dichlorodifluoromethane Isodin Tetrachloroethylene delta-BHC 1,1-Dichloroethane Isosafrole 2,3,4,6-Tetrachlorophenol gamma-BHC 1,2-Dichloroethane Kepone Toluene Benzene 1,1-Dichloroethylene Methacrylonitrile Toxaphene Benz(a)anthracene trans-1,2-Dichloroethylene Methanol Bromoform Benzal chloride 2,4-Dichlorophenol Methapyrilene 1,2,4-Trichlorobenzene Benzo(b)fluoranthene 2,6-Dichlorophenol Methoxychlor 1,1,1-Trichloroethane Benzo(k)fluoranthene 1,2-Dichloropropane 3-Methylcholanthrene 1,1,2-Trichloroethane	Manifest Doc.#:	Line Item:	MRSI Approval N	lumber
Accenaphthylene	Circle those regulated consti	ituents which can reasonably be	expected to be present, at the	point of generation of the
Accapithinene Bitylene dibromate Accioner Dibromomethane Accioner Dibromomethane Plustrate and Accioner Plustrate and Accioner Plustrate and Philiatic acid Philiatic	hazardous waste described	above, at a concentration above	the specified treatment standa	ord.
Accione Dibromomethane Fluoranthene Pluoranthene Accione Dibromomethane Pluorene Pluorene Philable acid Philable a	Acenaphthylene	1.2-Dibromo-3-Chloropropane		Phenol
Accionante 2,4.0 D Heptachtor poude Pronamus Phithalic anhydride Processor Proposed		Ethylene dibronade	Fluoranthene	· -
Acetophenone p.p-DDD Heptachlor epoxide promande p.p-DDD Acrolem p.p-DDD Hexachlorobustadene pyndine p.p-DDD Acrolem p.p-DDE Hexachlorobustadene pyndine p.p-DDE Hexachlorobustadene pyndine p.p-DDE Acrylamide p.p-DDE Hexachlorobustadene pyndine pyndine p.p-DDT HxCDDs Silvex p.p-DDT Addin p.p-DDT HxCDDs Silvex p.p-DDT Addin p.p-DDT HxCDDs Silvex p.p-DDT Addin p.p-DDT HxCDDs Silvex p.p-DDT	Acctone	Dibromomethane	· -	· ·
2-Acctylamiofluorene Acrolan Acrylamide Dibenzia (a.pytone Mehacothorocyclopentalate Intercental Michael Solidior Acrylamide Aramide Dibenzia (a.pytone Benzach Intercental Acrylamid	Acetonitale	2.4D		· · · · · · · · · · · · · · · · · · ·
Acrylamide 0,ρ-DDE Hexachlorocyclopentaldene Pyndine Safrole Acrylamide 0,ρ-DDT HxCDS Silvex Safrole Op-DDT HxCDS Silvex Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Silvex Px-Constitute 0,ρ-DDT HxCDS Tx-Constitute 0,ρ-DDT HxDDT HxCDS Tx-Constitute 0,ρ-DDT HxDDT HxCDS Tx-Constitute 0,ρ-DDT HxDDT HxDDT HxCDS Tx-Constitute 0,ρ-DDT HxDDT	•		·	
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Acylonatnie 0,0°10DT HxCODs Silvex Aldran 0,0°10DT HxCODs 1,2.4,5°T Aldran 0,0°10DT HxCODs 1,2.4,5°T Annibe Dibenz(a, h) anthracene Hexachloroethane 1,2.4,5°T Etrachloroebezene TCODs Anthracene m-Dichlorobenzene Indeno(1,2,3°d,d) pyrene Anthracene m-Dichlorobenzene Indeno(1,2,3°d,d) pyrene Anthracene m-Dichlorobenzene Indeno(1,2,3°d,d) pyrene Anthracene m-Dichlorobenzene Indeno(1,2,3°d,d) pyrene IcoDs Aramite o-Dichlorobenzene Indeno(1,2,3°d,d) pyrene IcoDs IcoDs Aramite o-Dichlorobenzene Indeno(1,2,3°d,d) pyrene IcoDs			. = =	-
Aldinn p.p.ODT HxCDFs 2.4,5-T Hxachlorochane 1.2,4,5-Tetrachlorobenzene TcCOs TcOps	· · · ·		•	
A-Aminobiphenyl Dibenz(a,h) anthracene Hexachloroethane 1.2,4,5-Tetrachloroebenzene Araine Dibenz(a,e)pyrene m-Dichlorobenzene Indeno(1,3,3-c,4) pyrene TCDDs TCCD	-			
Aniline Dibenz(a,e)pyrene Mexachloropropylene TCDDs Anthracene m-Dichlorobenzene Indeno(1,2,3-c,d) pyrene alpha-BHC p-Dichlorobenzene Iodomethane alpha-BHC Dichlorobenzene Isodunyl alcohol 1,1,2-7 etrachloroethane alpha-BHC Dichloroethane Isoduny Isodunyl alcohol 1,1,2-7 etrachloroethane della-BHC 1,1-Dichloroethane Isoduny Isodunyl alcohol 1,1,2-7 etrachloroethane della-BHC 1,1-Dichloroethane Isoduny Isodunyl alcohol 1,1,2-7 etrachloroethane Benzene 1,1-Dichloroethylene Kepone Tolucne Benzene 1,1-Dichloroethylene Methacrylonitrile Toxaphene Benzal chloride 2,4-Dichlorophenol Methacyrloritrile Methanol Bromolorm Benzal chloride 2,4-Dichlorophenol Methoxychlor 1,1-1-Trichloroethane Benzo(k)fluoranthene 1,2-Dichloroppopane Isonzo(k)fluoranthene 1,2-Dichloroppopane Isonzo(k)fluoranthene 1,2-Dichloroppopane Isonzo(k)fluoranthene 1,3-Dichloroppopane Isonzo(k)fluoranthene Isonzophenyl phenyl ether Isonzophenyl phenyl ether Isonzophenyl phenyl ether I-Butyl alcohol Directly phthalate Methyl methacrylate Methyl garbida Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl partialion Methyl philalate Methyl philalate Methyl philalate Methyl philalate Methyl philalate Methyl philalate Methyl p	* * * * * * * * * * * * * * * * * * * *	• •		
Anthracene Aramite O-Dichlorobenzene Iodomethane Indeno(1,2,3-c,4) pyrene	· -	• •		
Aramite o-Dichlorobenzene lodomethane 1.1.2-Tetrachloroethane alpha-BHC p-Dichlorobenzene lodomethane 1.50buyl alcohol 1.1.2-Tetrachloroethane ne 1.50buyl alcohol 1.1.2-Tetrachloroethane 1.50buyl alcohol 1.1.2-Tetrachloroethane 1.50buyl alcohol 1.1.2-Tetrachloroethane 1.50buyl alcohol 1.1.2-Tetrachloroethane 1.50buyl alcohol 1.1.2-Dichlorophenol 1.50buyl alcohol 1.1.2-Tetrachloroethane 1.50buyl alcohol 1.50buyl alco	Aniline		• • •	
alpha-BHC p-Dichlorobenzene lisobutyl alcohol 1.1.2.2-Tetrachloroethane beta-BHC Dichlorodifluoromethane lisodin Tetrachloroethylone della-BHC 1.1-Dichloroethylone lisodin Toluene 2.3.4.5-Tetrachloroethylone della-BHC 1.2-Dichloroethylone Kepone Toluene Toluene Benzaene 1.1-Dichloroethylene Methacrylonihle Toxaphene Benzal chloride 2.4-Dichlorophenol Methacrylonihle Benzal chloride 2.4-Dichlorophenol Methacrylonihle Benzal chloride 2.4-Dichlorophenol Methacrylonihle Benza(b)lluoranthene 2.6-Dichlorophenol Methoxychior 1.1.1-Trichloroethylene Benzo(g)loranthiene 1.2-Dichloropropane 3-Methyleholanthrene 1.1.1-Trichloroethane 1.2-Dichloropropane 3-Methyleholanthrene 1.1.1-Trichloroethane 1.3-Dichloropropylene desis-1,3-Dichloropropylene desis-1,3-Dich	Anthracene	m-Dichlorobenzene	•	
beta-BHC Dichlorodifluoromethane delta-BHC 1,1-Dichloroethane Isosafrole 2,3,4,6-Tetrachlorophenol 70 parma-BHC 1,2-Dichloroethane Kepone Tolucne Benzene 1,1-Dichloroethylene Methacrylonitrile Toxaphene Benzene 1,1-Dichloroethylene Methanol Bromotorm Benzene Irans-1,2-Dichloroethylene Methanol Bromotorm Benzel (billiophenol Methapyrillene 1,2,4-Trichloroethylene Benzel (billiophenol Methapyrillene 1,2,4-Trichloroethane 1,2-Dichlorophenol Methacryllene Benzel (billiophenol Methapyrillene 1,2-Dichlorophenol Methapyrillene 1,2-Trichloroethane 1,2-Dichloropropane 3-Methylcholantitrene 1,2-Dichloropropane 3-Methylcholantitrene 1,2-Trichloroethylene Benzel (billiophenol Methyliperillene Benzel (billiophenol Benzel (billiophenol Benzel (billiophenol Benzel (billiophenol Benzel (billiophenol Benzel (billiophenol Benzel Benzel (billiophenol Benzel	Aramite	o-Dichlorobenzene		
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gamma-BHC 1,2-Dichloroethque Kepone Tolucne Benzene 1,1-Dichloroethylene Methanol Toxaphene Benzal (rans-1,2-Dichloroethylene Methanol Bromoform Benzal chloride 2,4-Dichlorophenol Methapyrilene 1,2,4-Trichlorobenzene Benzal (philoronithene 2,6-Dichlorophenol Methapyrilene 1,2,4-Trichloroethane Benzo(b)fluoranthene 2,6-Dichlorophenol Methapyrilene 1,1,1-Trichloroethane Benzo(a),hijperylene cis-1,3-Dichloropropylene frans-1,3-Dichloropropylene (rans-1,3-Dichloropropylene Benzo(a),pyrene (rans-1,3-Dichloropropylene Benzo(a)) Benzo(a),hijperylene cis-1,3-Dichloropropylene frans-1,3-Dichloropropylene Methyl ketone Benzo(a),pyrene (rans-1,3-Dichloropropylene Benzo(a)) Benzo(a),hijperylene cis-1,3-Dichloropropylene frans-1,3-Dichloropropylene Benzo(a),hijperylene Cisethyl phthalate Methyl isobutyl ketone Methyl ketone Benzo(a),hijperylene Cisethyl phthalate Methyl isobutyl ketone Dichyl phthalate Methyl isobutyl ketone Dimethyl phenol Methyl parathion Insight Benzyl phthalate Di-n-butyl phthalate Methyl parathion Insight Benzyl phthalate Di-n-butyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl Phthalate Methyl parathion Insight Spiritorophenol Insight Benzyl Benzyl Phthalate Methyl parathion Insight Benzyl	beta-BHC	Dichlorodifluoromethane		•
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Benzal chloride 2,4-Dichlorophenol Methapyrilene 1,2,4-Trichlorobenzene Benzo(k)fluoranthene 2,6-Dichlorophenol Methoxychlor 1,1,1-Trichloroethane Benzo(k)fluoranthene 1,2-Dichloropropale 3-Methylcholanthrene 1,1,2-Trichloroethane Trichloroethane 3-Methylcholanthrene 3-Methylcholan	Benzene	1,1-Dichloroethylene	Methacrylonitrile	•
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				Vanadium
		•		

PcCOFs

Phenacelin

Pentachloroethane

Pentachlorophenol

Pentachloronilrobenzene

Elliyl cyanide

Ethyl benzene

Ethyl methacrylate

bis(2-Ethylhexyl)phthalate

Ethyl other

Chloropropylene

wysene

Cresol Cresol

Cresol

MOR 000405



POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-00-282-4706 OR OUT OF STATE AT 817-372-7060 AND THE NATIONAL RESPONSE

MICHIGAN I

MUST BE REP.

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Form Approved. OMB No. 2050-0039

Information in the shaded areas is not required by Federal . Generator's US EPA ID No. Manifest UNIFORM HAZARDOUS Document No **WASTE MANIFEST** D02541526G MIZ 90052 Generator's Name and Mailing Address MOREY CORP. MOREY CORP. 2659 WISCONSTN AVENUE, DOWNERS GROVE, 1L 60515 (630) 964-2300 State Generator ADD Generator's Phone (5. Transporter 1 Company Name ENVIRONMENTH WASTE SERVICES IL RESOLO NHUMBER D) Transporter & Prono 36-30 beauty 7. Transporter 2 Company Name ESCOPE AND A STATE OF THE STATE **US EPA ID Number** 1L0984775049 OZINGA TRANSPORTATION SYSTEMS SCIO SHIVE DE 9. Designated Facility Name and Site Address 10 **US EPA ID Number** MICHIGAN RECOVERY SYSTEMS. INC MIDBEA975844 36345 VAN BORT RD. ROMELUS, MI 48174 12.Containers 11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). Total Unit HM No. Type Quantity We/Ve PO POSTE (LAMMABLE LIQUID. ANT AROMATIC HYDROCORDONS) N.O.S. (ALIPHATIC 00) 184993.FB 11 (0001) A T b. HER THEOREMS, BY DOLL ٥)O l A THE BRIDGE STOP GIFTING THE C. d. Additional Descriptions for Materials Listed About 15. Special Handling Instructions and Additional Information Emergency Contact # (630)964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I, am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Mpost Das Printed/Typed Name Signature Date 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day, Year Printed/Typed Name Signature MAS Date 2 Acknowledgement of Receipt of Asterials Printed/Typed/Name Signature May 19. Discrepancy Indication Space MOR 000406 20. Facility Owner or Operator: Certification of teceipt of hazardous materials covered by this manifest except as noted in term 19 Date De Printed/Typed Name Signature

Headle this trust one before completing this form. This form the c_{ij} is the i_{ij} is the typewiden.computer.printer; a firm point pen may also be used. gress duwlings to Drusse an obsess are regione.

Feneral and state regulations require generalizes and transporters of hazzi-book wiskle and owners or garenous of hazardors, washe treatment, sturage, and disposal fan it systemuse this furn. 3000-20, and if recessary, the communition sheet (Form 8706-22A) for both intin-land intrustate transportation of hazardous waste as defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111). Statis regulations area require the use of this manifest for all regulated shipments of Equid industrial waste as required in Part 121 of Act 451 of 1994, as arreinded (Part 121).

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 49CFR, Part 15), Part 121).

Additional information such as "Rejected Load Procedures", state assigned identification numbers fest forms, etc., can be obtained by contacting the Michigan Department of Environmental Guality (MDEQ), Waste Management Division's (WMD) Internst Flome Page at: http://www.deq.state.mi.usiw.md.or.you.may contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MDEO.

Complete all floms on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Rem 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested ship-ments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

Rem 2. Page number 1 of 1 should be recorded unless a continuation sneet is used, in which case the total number of pages, counting the initial manifest page, should be shown

filem 3. Enter the name of the generator and the mailing address to which the manifest should be mailed If the address of the site at which the waste was placed into transportation is different from the making address record the site address in Item J.

Rom 4. Enter a telephone number (including area code), where an authorized agent of the generator can be reached in the event of an emerger by and/or a partial or total rejected load

NOTE: The 24 hour emergency phone number required for a hazardous materials shocing paper may be different from the generator's phone number

Rem 5. Enter the company name of the first transporter who will transport the waste

item 6. Enter the transporters U.S. EPA, twerve digit identification number. For Part 121 man firsted shipments where a transporter does not have a U.S. EPA assigned number, a state ansigned number is to he used

Rem 7. If using a second transporter, enter the company name

Rem 8. Enter the second transporter's U.S. EFA, twelve digit identification number. For Flund 123 manufested shipments where a transporter is well not national 0.5. EFA, and prediction in the contract and promise. number is to be used.

NOTE: If more than two transporters are used, the generator or toird transplatter shall inflate a continuation sheet. In item L of the continuebon sheet, the generator/transporter must copy the State manufact document number fisted in hem A. Every transport company used between the generator and the designed facility (except for intermediate ray of partie transporters used between the entiairs list barne carriers and signated facility) must be listed. This is not intended to require multiple signatures for individual drivers working for one transporter. Item 2 is to be changed to reflect the added page (s). Continuation sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams

Item 9. Enter the company name and site address of the facility designated to receive the waste listed on

Item 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

from 11. Enter an X in the HM box if the waste is a hazardous material regulated by U.S. DOT (See 49 CFR 172) Enter the required U.S. DOT shipping description, including Proper Shipping Name, Hazard Class or Division, ID Number (UNINA), and cacking group for each waste as identified in 49 CFR 172 Additional information may also be required in this space, including technical name and reportable quantity references. For only Part 121 regulated wastes include an appropriate shipping description for the waste

Rem 12. Enter the number of containers for each waste and the appropriate above visitor is harris below for the type of container. Each container type requires separate entry.

DM = Metal drums, berreis, keas

DW = Wooden drum, betreis kage

DF a Fiberboard or plastic drums, barre's keigs

DT = Dump Truck

TP = Tanks, portable

TT = Cargo lanks (tank trucks) TC = Tank cars

CY = Cylmders

CM = Metai boxes, cartone, cases (including rof-offs)

CW = Wooden boxes, cartons, cases

CF = Fiber or plastic boxes, cartons, cases

BA = Burlap, cloth, paper/plastic bags

Rem 13. Enter the total quantity of waste described on each line. Do not use the mais or hactions

Nem 14. Enter the appropriate abtireviation for the unit of measure listed below.

G = Gallons (liquids only)

P - Pounds

T x Tons (2000 to)

Y + Cubic Yards L = Liters (liquids only)

K = Kiograms

M = Metric tone (1000 kg)

N = Cubic meters

MOR 000407

But 15. The generator may use this space to indicate special transportance. The period plagage of disposal information is moort Export information as noted in the finite mations. Since any instructions section is to the raco ged here

from 16. The generator must read, print his beridame is an and dare the certification statement

ftem 17. Printine name at the genson actioning the wayre of behalf sits diffrattransporter. That person must acknowledge acceptance of the waste describe, on the munifies by signing and entering the date of repeipt.

Ram 18. If applicable, print the name of the person accepting the waste on behalf of the second transporter. That person must acknowledge acceptance of the waste described on the manifest by agong and entering the date of receipt

from 19. An authorized representative of the designated (or alternate) facility must corp in this space any

Item 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt.

NOTE: MDEC "Rejected Load Procedures" provides guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

Item A. A preprinted State manifest document number

from B - H. May be required by other states.

Item 1. For hazordous wastes, lenter the appropriate waste numbers found in f829 9212 through f829 9214 of Part 111 and 40 CFR 261 Subparts Gland D. If note than one waste number is required to appropriately identify the waste, enter the additional numbers in item. In selecting the most appropriate waste number the following hierarchy must be used: acute weste (including P and acute F). U (raxid) is (specific sources), floh-adite **F (non-spec**ific sources) and D (of aracter slict). Share, regulated wastes to low the same hierarchy as federally regulated wastes. For Part 121 wastes which are non-nazaracus will like writer the appropriate code I stad below

Mixed Solvents	007
Fit almodeutinal	014
Cralik jasa Oili	0*7
Continue and Water Sciume Oils	019
Crost on Castrice in Bemilt or female	021
भेग ह	0.70
F06	326
Other wastes (Describe in Irem 11 or Item J)	0230
Aritheeze	036:

Rem J. 134 on the avertal use the repaint of the sample of the sit of the international of the sample of the sampl instructions, approval of comining inglautronly as required in Rayú Sir, 4(6)

tion K. List any specific podes which apply

Billhed for Energy Retryory	47
Conditionally Exempt Small Quartity Generator	C
Emergency Response Cleanup	Ε
Household Generated	н
Recycled Precious Merals	P
Recycled, Reciaimed, Used or Relised	R
Universal Waste	U

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure. from the United States.*

Imports: Shipments of hazardous and Part 121 regulated waster must be accompanied by a U.S. EFA form Hazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, must complete the manifest as required in R299 9310 *

*Transporters of hazardous waste chipments must deliver a copy of the manifest to U.S. Custo his when importing or exporting the waste across U.S. borders. Record the foreign waste manifest document number in Hom 15

MANIFEST DISTRIBUTION

GENERATOR: Upon plecing the waste into transportation (first transporter signs and dates manifest) remove the white and gold banded copies and give the remainder of the manifest copies to the transporter. Solid the white copy to MDEO no later than the let It day of the month (nowing the ship pinet). For ship prients of wastes being transported to a designated facility outside of Motigan when an out-of-state manifest is used, mail to the MDEO a photocopy of the manifest when the shipment is placed into transportation and mail a photocopy of the second generator manifest copy, when race yed

TRANSPORTER: Upon delivery to the designated (or alternate) tablity, and that facility signs and dates the manifest, the canary banded copy will be returned to you. If more than one transporter is used, the mainfest is to be copied and supplied to the previous transporter acknowledging the receipt of the shipment by the next transporter. The canary banded copy stays with the manifest until the empirement reaches. the designated facility

DESIGNATED FACILITY: Upon signing and dating the manifest as received, give the canary banded copy to the transporter. Peturn the this banded copy to the generator. Mail the pink banded copy to the MDEQ no later man the 10th day of the month following receipt of shipment.

ADDRESS ALL INDEQ MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7638

The public reporting burden for this collection of information is estimated to average 31 minutes for generators, 16 minutes for transporters and 16 minutes for treatment, storage and disposal facilities. The record likesping burden per response for this collection of information is estimated to average 6 minutes for generators, 6 minutes for transporters, and 6 minutes for treatment, storage and disposal facilities. The burden associated with reading the regulations is estimated at 1 flour and 15 minutes annually. Burden means the total time, effort, or financial resources expended by persons to generate, mantain, retain, or dispose or provide information to or for a Federal agency.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it deplays a currently valid CMB control number. The GMB numbers for EPA's requirations are fater in 40 CPR Plant 9 and 48 CPR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including through use of automated collection fater on the Director, CPPE Regulatory Information Division, U.S. Environmental Protection Agency (2.37), 401 M St., S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Attention; Desk Officer for EPA, 725 17th Street, N.W., Washington, D.C., 20503. Include the OMB control number in any correspondence.

- DNR **W** WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL

DO NOT WRITE IN THIS SPACE ATT. □ DIS. 🗆 REJ. 🔲 PR.

UNIFORM HAZARDOUS WASTE MANIFEST 3. Generator's Name and Mailing Address MRY C 1892. 1992. 1993. 1994. 1994. 1994. 1995. 19	ease print o						Approved. ON	48 No. 2050-0	039 Expi	es 9-3
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Form 8700-22 (Rev. 9/88) MOR 000408		00-22 (Rev. 9/88)	· · · · · · · · · · · · · · · · · · ·			_ ^ ^ -				

READ ALL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Federal regulations require generators and transporters of hazargous maste and owners and operators of hazaruous wasie treatment, storage, anni disposal facilities to use this light (8700-22) for both inter and mtrastate transportation

State regulations require this manifest to be used for the transportation of (1) all hazardous western managed under Part 111 of Act 451 of 1994 as unrended and (2) all iguid industrial waste (including those reclaimed, or lacycled) under Part 121 of Act ab1 or 1994 is amended

Forms can be obtained by calling Michigan Department of Natural Pisources (MDNP) Waste Manager ment Division at (517) 373-2730.

GENERATOR INSTRUCTIONS

Hem 1. For shumers of regulated quantities of hazardous visite eries your U.S. EPA twicke digit identification rember. To receive an EPA ID number, a not fication or haza does made activity. EPA Form 8700-12 must be submitted to the EPA

Enter a unique, from digit number to the maintest document number space, it've suggest that you start with 00001 and progress to 99999 to

For an Act 130 liquid industrial waste evey, a Michiga (ID during) may be used in place of the EPA ID number. To obtain a Michigan to number coll MDNR Waste Management Division at (C17) 373-2730

The Michigan ID Humber cannot be used by generator: of RCRA hazaruous wastes.

Norm 2. If a continuation sheet is used leafer the challenger of sweets here it published to preed is used way when three or more transporters will all to the burshoot the stip lead or all of a cases, enter Dige e

Hem 3 Futer your name and mailing address. The address struid on the location that will manage the returned manifest form.

Hem 4. Filter a telephone number where your entriences age to value or when 24 hours addy in the event of an improvence

Hom 5. Enter the company name of the first transporter. The entragency the sact

ttem 6. Enter the C.S. EPA or Michigan methe door rienthication comber or the first Car uporter ideals. field to Hein Sight the supplier is not included specific or and Sigher filt matter our groups and

Hern 7. Enter the company name of the satural transport of the low transport the wast. If acuricable

from 8 letter the U.S. EPA or Michigan of the dust identification running of the canonil Lansport identi-561 m desa 7

if three or more transporters are used you must use an EPA form 8700 22A congruention shart to iden tily an additional transporters. This is the only situation where a continuation sheet is to be used. You must indicate the transporter's company name and district Archingan page-dust identification number in Items 24-27 on the continuation sheat

Photo copy the configuration sheet and distribute copies just as you do the mannest risk bisce the Confided document delinfer from Rein A of page 1. in the n C of the continuation sheet, in addition to proper signatures where needed, these are the only items to be completed on the country tion towers NOTE: been, transporter used netwise the cenerator and the designs of facility must be inter-

Item 9. Enter the company name and site address of the facility designated to receive the waste listed on this munitest. The address must be the site address in not may defer from the company making address.

Itom 10. Enter the U.S. EPA or Michigan twelve digit identification number on the nest nated facility ident her in item 9

from 11. Enter an X in the HAI box 1 the waste 3.0 hazarrious metaral registered by G.S. DOT (see 49 CFR 172 201)

First the U.S. 201 Proper Shipping Finne, Hazaro Class, and the BOT ID (LIBNA) number for each #38le as identified in 49 CFR 171 through 177, and (Ei), when required

if the liver space to fish additional waste types and take mandestr to complete the wasta listings for your sharpest. Each mandest used should be committed in its entirely. You nite not use combination sheets to ist artainonal waste shipments.

WASTE BEING TRANSPORTED TO AN OUT-OF-STATE FACILITY MUST BE PROPERLY CHARACTERIZED TO DETERMINE IF IT IS A HAZARDOUS WASTE IN THAT STATE. ANY WASTE WHICH IS DETERMINED TO BE A HAZARDOUS WASTE IN THE RECEIVING STATE MUST BE APPROPRIATELY IDENTIFIED IN ITEM J.

Horn 12. Enter the number of containers for each state and the appropriate abbreviation for the type of container

DM - Metal droms, barre's kegs

DW = Wooden drums, barrels kegs

DF = Fiberboard or plastic drims, barrets keys TP = Tanks portable

TT - Carno tanks (tank trucks) TC - Tank cars (railroad cars)

OT _ Dump truck

CY = Cylinders CM -Metal boxes nartons cases

(including rate offs) CW . Wooden boxes cartons cases

CF -Fiber or plastic buxes, cartons, cases BA - Burtan cloth paper or plastic bags

illem 13. Enter the total quantity of wrists described on each line. Use whole numbers only, do not use necima, numbers or fractions

from 14. Enter the appropriate abbreviation for the unit of measure:

6 . Gallons (liquids only) L = Lifers (liquids only) P w Pound; K - Kilograms 1 = lone (2000 tbs.) M - Metric tons (1000 kg) Y - Unbic vards N + Cubic melers

Hem 15, indicate any special transportation. Bill of Ending, treatment, storage or disposal information. For shipments of hazardous waste from the U.S. destined for treatment, storage or disposal outside the jurisdiction of the United States, generators must enter the count of departure (City and State)

item 16. The generator must read sign (by hand) and date the certification statement it a mode other than high vay is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air; at serted directly below the bises out word. If another mode in addition to the bigging mode is used emithe appropriate additional mode (e.g., and rail) in the sumi location

Item A. Miningan has preprinted the State maintest decument number, to assure a unique number to

Items B - H. Not required to be completed under Mr. (2.9) for This information may be required by this generator state of the waste was generated in a state other than Michigan

Hem 1 For hazardons wastes, enter the hazardous maste number R299 9210 thru R299 9214 of the Michigan Administrative Code, or 40 CFR 261. If more than one waste number is required to pregnatory identify the suste enter additional numbers in thim of for figure industrial wastes which are not regulative by RDEA of Part 111 of Act 451, 1994, as amended enter the most appear rate is incorporate from Taylor a ded in most instructions.

N/H Column

For Jaco sporte listed, pill an N in this column if the posser can also be a door, and industrial waste in a confrequences because waste. Put only on this color of the captures angulary hazardous waste unit BOBA Medita

Hern J. activity any safety precamons and on uperform properties of the cross monaterilities to profinzard class include all adollocal hazarmous can't countries agencies on the constee heter to be a prehots a lide of a waste is a mosting of paper dilect, a collection overlaphed the pagazine is a waste continued of each component). Also include treatment standard to destricted yield in their content to form and

Hem. K. Fir each hazardous waste in Remote thought in speech, use the would fall on the foregoing cutegories by listing the letter are eding the form of the prepolity into figuriths and in the small highly have area on the right side of this box is, so some a large of the line of a some cantile load a Si in the corresponding lines in the right hand side of lines is fire. If involute the granuary responsibility authority for these categories

f 1981 Chair.

5. PACS ...

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The Superflow Section

40 307 No.

Community Exempt Small

Quartity deterator H - Hourel o'u Wastes M - Mix Combined Commingled

B - Priming Sectionsed USed of GRUSAN

S - Small Quality Generator

Distribution of Manifest

Before to moving any copies, verify that all recession independent has born field only writing necessari signatures affixed.

After the Canagorter signs and dates the manifest to certify reneigh in the case retires the top myster) and bottom (goldenroid) copies of the manifest and note the balance of the mainless to the transporter P more than one transporter will be used, you must use our appoint copic of the over first to learn accidental Lansporter

Where more than two transporters have been usen in continuation should in still be worsed. A copy of each continuation sheet must accompany each one of the mandest are not retorable and contribute out a these instructions.

Send the white cupy to the DNR no later than the 10% do, in the another discussion in the sign must be blue copy signed by the disposal facility and returned to the constitutional to those years

For stagments from non-Michigan generators, the generator mode sent a plant, copility the manifest to the regulatory agency of the generator state which so he trured. An additional diply must uso be promised to the transporter for sphinital by the TSDF to the receivable appears of the generator state when so required by the generator state

Nondeliverable Wastes

If an emergency prevents a transporter from delivering the menerator's styrmen to the designated treatment storage or disposal facility, the transporter and call the generation asking for information on an internate facility that can accept the waste. The generalor shall either designate another facility or instruct the transporter to return the waste

Public renorming burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for trial public renorming burden for this collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average and collection of information is estimated to average 37 minutes for present the collection of information is estimated to average and collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the collection of information is estimated to average 37 minutes for present the coll time for reviewing instructions, galitering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reclaiming this burden in Chief, Information Principles Branch, PM-223, U.S. Environmental Protection Agency 401 M. Street, S.W., Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs. Office of Management and Biologic Washington, in C. 20503

TABLE I (For use with wastes regulated under Part 121 of Act 451, 1994 as amended only)

Eliquid wastes which have been evaluated and found to tall outside of RCRA or Part 111 of Act 451, 1994, as amended, regulations should be manifested using these numbers

Waste	Waste No.	Waste	Waste No.
Acid Solution	001L	Crankcase Oil	01/1
Alkaline Solution	003F	Cutting Oil	013L
Etching Fluids	003L	Coolants and Water Soluble Of	0101
Plating Wastes	004L	Lubricating Oil	0200
.Halogenated Solvents	995L	Other Oil	021
Non-Halogenated Solvents	006L	Brine	0221
Mixed Solvents	007L	Driffing Muds (Gas and	
Peroxides	0081	Oil Operations:	023L
Papermiil Wastes	0091	Oil Field Tank Bottonia	Ci II
Ink Residues	บาดเ	Mixed Oil Residue	0254
Paint and Pigments Residue	01 [PCB. PBB contaminates	Vc
Pestir de Residues	012L	Matenais	026L
Perbicide Residues	013L	Radioactive throaties	27.0
Pharmaceutical Wastes	014L	Food Processing Wastes	6281
Lacrimators, Ainides, Mercaptans	015L	Other Wasles (Describe in	.,,,
Plasticizers, Resins.		(lem J)	026
Monomers, Elastomers	0161		, n

TRANSPORTER INSTRUCTIONS

Item 17. Print the name of the person accepting the waste on behalf of the first those ofer. It as person must acknowledge acceptance of the waste described to the mandest by Sunning and collecting the date of

flem 18. Pont in applicable, the many of the person accepting the waste on helicit of the sorrect transporter. That persun must acknowledge accountrate of the marke described on the marked by output. and entering the risic of recent

International Shipments

Exposits - You must sign and enter the date the waste whill a triated discover date at

Implient - Sain nexts of hazardous waste regulated by DCK and co-experted and the banks. State from another country must, upon entry, be accompanied by ele U.S. 5PA or farm dazarrene visco-

If you transport hazarous waste, the the United States from another months, you are resourcitize to completing the generator portion of the manifest (40 CFH 263 10/c - 1);

Distribution of Manifest

Upon decrease of the shipment to the TSDF give the secretaring copies of the most total to the TSDF. representative. The ISDF representative must soon and dure the maintest of an acceptance of the claste and return the canary copy of the manifest to you

Nondetiverable Waste

When an energency preventy delivery of the waste to the designated facility, the transporter and call the generator to obtain the name of an alternate TSDF. The generalic shall either designate souther family or instruct the transporter to return the waste.

The pare-porter analogoidy point the name and phone number of he person at the generator facility who provided information to the transporter in the comments section

TREATMENT, STORAGE, OR DISPOSAL **FACILITY INSTRUCTIONS**

Item (9. An authorized representative of the designated (or laternate) world, must live in this specifies sign ficant discrepancy in the waste shipment as defined in 40 CRF 264 72

It significant discrepancies cannot be resolved within 17 days of receiving the clusters, so must submit to your U.S. CPA Regional Administrator is letter with a copy of the maintest of issic describing to discrepance and attempts to reconcre it (40 CFR 264-72 and 265.72). A copy of this letter should also be sub-citled to the Michigan Department of Hatural Resources to the address in these are inclines.

Item 20. Point or type the name of the person accepting the waste on belief of 201. That period must acknowledge acceptance of the waste described on the manuest by signing and imming the date of (acein)

Distribution of Manifest

Return the canary copy of the manifest to the transporter send the blue copy to the generator, and the gink copy to the MONR (no later than the 10th day of the month following shipment). Retain the green con-

A photo copy may be required by the regulatory agency of an out-of-state generalist

Rejected shipments - retain the unsigned preen copy and return the remaining copies of the manifest to the transporter

ADDRESS ALL MONR MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF NATURAL RESOURCES **BOX 30038** LANSING, MI 48909-7538 (517) 373-2730

DNR WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF NATURAL RESOURCES

2MS

DO NOT WRITE IN THIS SPACE

PR.□

ATT. DIS. REJ.

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties, under Sections 324.11151 or 324.12116 MCL

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READ ALL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

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State regulations regime this interfest to be used for the transportation of (1) all hazardous wester minnarryo under Fall 111 of act 451 of 1994, as amended and (h) all wound industrial visite Cinclusing those required in individed part 121 of Acc. 51 of 1994, as amended,

Forms, and be obtained by raying Michaelm Genuriment of Numbel Februages (MDNR). Asser Manage Incht Decision at (517, 173, 1130)

GENERATOR INSTRUCTIONS

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From convine continuation sheet and distribute copies, got as you do the manifest loss place the manifest document number from (cm A of page 1 in fam E of the Continuation street it could not be arouse agnatures where heated, these are the only items to be completed on the continuation sheets. NUTE: Every transporter using borriern the genality, using the design in a tability in in the color

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Fifth COULD AND Prince Sources Blance have a classe over the BCF of Child . The steep for each waste as identified in 49 CFR 171 through 177, and IRC: when required

If the left take to list auditorial stable types lost extra manifests to complete the stable listings for nour singment. Each instruest used should be complited in its a tirety. You may not use continuation sheets to ast additional waste shipments.

WASTE BEING TRANSPORTED TO AN OUT-OF-STATE FACILITY MUST BE PROPERLY CHARACTERIZED TO DETERMINE IF IT IS A HAZAROOUS WASTE IN THAT STATE, ANY WASTE WHICH IS DETERMINED TO BE A HAZARDOUS WASTE IN THE RECEIVING STATE MUST DE APPROPRIATELY IDENTIFIED IN ITEM J.

Item 12. Enter the number of containers for each waste and the appropriate abbreviation for the type of container

DM - Metal drums barrels keds

11 - Caron tanks frank frucks:

DT . Dump truck

Worden trums, barrels, keus

CY = Cylinders CM - Metal house martons cases

DF - Fiberboard or plastic drinns barrels, kegs TP - Tanks portable

(including rol. offs) CA - Wooden hoxes cartons rases

TC - Tank cars (railroad cars) BA - Burlap cloth paper or plastic bags

CF . Fiber or plastic boxes, carlons cases

florn 13. Enter the total quantity of waste described on each line, like whole numbers only, do not use decima numbers or fractions

Hem 14. Enter the autoropriate abbreviation for the unit of measure.

G + Gallour, (Equids only) L a Liters (broads 00/y) P . Pounds K . Kilogranis M . Metric tons (1000 kg) 1 a lone (25 of the) t + Gubic yards N + Lubic meters

Rem 15, indicate any special transportation. Bill of carling treatment, storage, or disposal information for shipments of hazardous waste from the U.S. destined for treatment, storage or discosal entirity the nunside from hit the United States, generators musicionter the point of generators (City and State)

item 16. The generator trust tead sign (by hand), and gate the certification distancent if a mode other tions make a reliased the word leadway should be tried out and the appropriate mode and, water or not is letter lived, a below the liner out word. If another mode in addition to the legislay mode is used, entothe appropriate additional lateds (e.g., and rail) in the same frontion.

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Distribution of Manifest

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After the transporter signs and dates the marches of our fit records at the early records the transfer and bottom (goldenroo) cupies of the manifest and questine balance of the maintrating the transporter. If choice that cone transporter with the used your ordinary to the early additional state of the contraditional ate of the contradition state of

Where none than her transporters have been used that op broad received in best he bedied. A copy of each continuation sheet must accompany each oper of the expellent and be then beteful accompany each these instructions.

Send the white copy to the DNR no liner than the γ to γ any γ to γ us an interest of the γ constant the bigs copy signed by the disposal facility and returned to the larger her during the reservoirs.

For surphients from non-Michigan generation, the incompany relative four conditions must fest to the requiatory agency of the generator state schoolson required, an additional rippy must also be provided to the transporter for submittal by the TSDF to the equivalence of the congrator state, then so required Ly the penerator state

Nondeliverable Wastes

If an energency prevents a transporter from debiguing the generator's shipment to the nesignated treatment, storage, or disposal facility, the transporter will call the generator acking for information on an arter nate facility that can accept the waste. The governor that either designate another facility or instruct the transporter to return the waste.

Public reporting burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for transporters, and 10 minutes for treatment storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to Chief, Information Police. Branch, PM-223 U.S. Environmental Protection Agency 401 M Street, S.W. Washington, D.C. 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget Washington, D.C.

TABLE I (For use with wastes regulated under Part 121 of Act 451, 1994 as amended only)

Liquid wastes which have been evaluated and found to fall outside of ACRA or Part 111 of Act 451, 1994, as amended, requiations should be manifested using these numbers

Weste	Waste No.	Waste	Waste No.
Acid Solutina	001L	Crankcase Oil	0171
Alkatine Solution	002L	Cutting Us	0180
Etching Fluids	003L	Coolants and Water Sound Of	0:90
Plating Wastes	004L	Lubricating Oil	0000
Halogenated Solvents	OSSL	Other Oil	1)2 · L
Non-Halogenated Solvents	006L	Brine	C221
Mixed Solvents	71.00	Drilling Muds (Gas and	
Peroxides	008L	Oit Operations)	9230
Papernui Wastes	U09L	On Field Tank Botton -	02.0
Ink Besidues	010L	Mixed O: Residue	r:a
Paint and Pigments Residue	011L	PCB. PBB contaminated	
Pesticide Residues	012L	Malena-s	924.t
Herbicige Residues	013L	Radioactive Residues	
Pharmaceutical Wastes	014L	Food Procussing Wanter	022
Cacomittors, Arredes, Mercaptans	BISL	Other Wandes (Describe in	
Flatificizers, Resins		Herry di	
Monomers, Elystomers	016F		

TRANSPORTER INSTRUCTIONS

Hern 17. This the name of the person accepting the waste on behalf of the first name little in the must acknowledge acceptable of the maste described on the maintest by signing and entering the master

Hem. 18. Port of hophicable, the name of the ports, lacinomic the wast for higher him. transmorter. If all person must acknowledge acceptance on the closed described on the population to and entering the date of receipt

International Shipments

Exports - you must sign and enter the date the counterest the content Science in sign of the

This of is a stagments of it azardous waste regulate in a Politik and it appears in the fire time. There from anothe country must agon entry be a completed to the U.S. IPA finition dazant is Wash

If the transport nazardous waste into the united distriction, and remoduling you are response. The connecting the generator portion of the manifest (40 CFR 10.3 1910) 1.

Distribution of Manifest

Types persent of the suppress to the TSDF give the requesting context is the manifest of the representative. The TSDF representative must sign and like the mander upon acceptives of the could return the rapar, copy of the manifest to you

Nondeliverable Waste

120 to interregency prevents delivery of the leading to the designated facility the most interregency calls. ge motor to obtain the name of an internate ISDF the generator shall either designate motors facult oistroid the transporter to return the waste

The Camporter shall egibly plant the dame and phone manter of the pensal of the generator the The proceed information to the transport of in the commercial section

TREATMENT, STORAGE, OR DISPOSAL **FACILITY INSTRUCTIONS**

Item: 49, set authorized representative of the designated of landing terms of agric or more in this grade. significant discrepancy in the waste snapment as defined in 46 CRF 264 /2

the or thank discrepances cause the resource compact Labors of the long the compact must such 7011 115 EPA Regional Administrator, a letter with a ropy of the mainful in some describing discreamic, and attempts to reconcile it (40 CFP 264.72 and 265.72). A convinction should are Citize the Ell, the Michigan Department of Natural Resource, by the address in there is all ections

item 20. Post or type the name of the person accepting the waste on between 3DF fluid personal must acknowledge acceptance of the waste described on the mandest by signer, consistening the ma-

Distribution of Manifest

LANSING, MI 48909-7538

Return the canary copy of the monitest to the transporter send the blue copy to the generator and to pink copy to the MDNR (no later than the 10th day of the month following shipment: Retain the green corp.

A photo copy may be required by the regulatory agency of an out-of-state generator

Rejected shipments - retain the unsigned preen copy and return the remaining copies of t manifest to the transporter

(517) 373-2730 /

ADDRESS ALL MONR MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF NATURAL RESOURCES BOX 30038

MOR 000411



ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMENGENCY ALENTING SYSTEM, IN MICHIGAN AT 1-806-285-4706 ON OUT OF STATE AT 817-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-806-424-8862 24 HOURS PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

DO NOT WRITE IN THIS SPACE ATT.

DIS. REJ.

PR.

mequired under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

UNIFORM HAZARDOUS WASTE MANIFEST 3. Generator's Name and Mailing Addre	1. Generator's US			F			
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MOREY CORP. 2659 MISCONSTIL AVENUE, COMBRE	es spove, u			T.			nt Numbers
4. Generator's Phone () 5. Transporter 1 Company Name ENVIRUMENTAL WHSTE SERVICES	6.	I LAKEN SON	Albei		aje granepisti enapostača Pri		
7. Transporter 2 Company Name 071NGG TRANSPORTATION SYSTEM	8.	US EPA ID No 11 D382 0 6		ES	en (aproximate)		
9. Designated Facility Name and Site A MICHIGAN PECOVERY SYSTEMS, I 30345 WWW BORN PD. ROMUNUS, MI 49174		US EPA ID NO M [1886/07/75		G:8	orsa entre	D.	
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Federal and State regulations provide for additional requirements, not included to these instrucsons, regarding the use and management of this form (40CFR: 49CFR: Fort 111, Part 111).

Additional information such as "Rejected Load Procedures", state assignments. Healthy and fest forms, etc., can be obtained by contacting the Michigan Department of Edv. Line of a U. Jarry (MDEQ). Waste Management Division's (WMD) Internet Home Page at. http://www.clsq.sture.du.us.wmd.or.you may contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MDEG.

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Rem 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number is state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001)

Rem 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which duse the total number of pages, counting the initial manifest page, should be show:

Nem 3. Enter the name of the generator and the malking address to which the maintenance in the prevention and the malking address to which the maintenance is the contract of the generator and the malking address to which the maintenance is the contract of the generator and the malking address to which the maintenance is the generator and the malking address to which the maintenance is the generator and the malking address to which the maintenance is the contract of the generator and the malking address to which the maintenance is the contract of the generator and the malking address to which the maintenance is the generator and the malking address to which the maintenance is the generator and the malking address to which the malking address to which the maintenance is the generator and the gen If the address of the site at which the waste was placed into transplantation is a hereight on the end in a address record the site address in item J.

from 4. Enter a telephone number part using area code, where an authorized agent in the nonerator conbe reached in the event of all emerges by aridium a post with the solution to

NOTE: The 24 hour emergency priche highit engage or for a hazar musurate rale, in the laborational bases may be different from the generator's phone number

from 5. Enter the company has well of the first transporter will be a point the well-

from 4. Enter the transporter's U.S. FPA, twelve digit identification reliable. For the 1921 the control shipments where a transporter owes his longers of ComPA assistant more registrons of the be used.

Rem 7. If using a second transporter enterthin in years in year

Item 8. Enter the second transporter \$1, TOTAL (switch dryn in ref) or a confested shipments where a transporter across of the public field of the contraction number is to be used

NOTE: If more than two transpioners are classic this generator of the disclosure of the first section of the contractions. wheel. In item L of the continuation sheet, the generator transitioner must only the Stote man feet disc. mentinumber letted in hem A. Every tial our recommendation of the region of a facility (except for informediate ratio) border by a province size wear in a pital apparate designated facility) must be rate a. The same time and a provinc the designated facility) must be distant. The second of the design of th sheets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams.

from 9. Enter the company name and site address of the facility designated to receive the waste listed on this mandaid

m 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in from 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

Tem 11. Enter an Ximitia HM now of the wisstells a mazard Julious are energianed by 118. 0017. Idea 49. OFE 177. Idea to a real office of the real office of the property vession of the complete office of the real office of the NATI and data for grown on the virtue with what a side of the virtue of the other and office of the NATI and data for grown of the virtue of the what and office of the NATI and data for grown of the virtue of the what and on the virtue of the virtue o findstrongt tetormands, may glap be sparred in this space, including rechalds have as dispositely years. references. For only Part 121 regulated wastes include an appropriate shipping description for the waste

Rem 12. Enter the number of containers for each waste and the appropriate above at his single above for the type of container. Each container type requires separate entry

SM a Metal drome berrels hace

LW - Whoden drum, box-els, kigs-

DF is Piberboard or piecklo drums. Larrers, kegs. CI a Dieno Tress

TP = Tanks, portable

TT = Cargo tanks (tank trucks) TO a Tank care

CY = Delinders

CM = Metal boxes, cartons, bases (including rott-offs).

CW - Wooden boxes before cares

OF a Piber or plastic boxes, company cases

BA - Buriago, cloth, pepuriplastic Labor

Nem 15, Enter the total quartery or waste described on each tire. The horizoness decimals or hadrons

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G a Galleria ficulate anua

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- Toris (2000 to

Y - Cubic Yains L = LAPS + LO N MONT

K - Krucrams

Mill Metric tone (1000 kg)

N = Cubic more's

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Sec. 24. 784

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Rem 18. If applicitle into the name of the person accepting the waste on perlanding wise only. This policy in this laste parteings are enturise of the waste preprieted by the manifest by a proare enginerated shed

from 14. Around to the economic form to be a complete with several transdistriction was the system topin ent

Item 20. Print the riar is of the person accepting the waste on behalf of the designated facility. That person must acknow with a poceptunce of the waste described on the manifest by sugging and intering The Called Street of the St.

NOTE: MCEG 19-leated Local Procedurest processe guidance for curhal or total load (legention)

Doing the following information in the shaded area is a State of Wichten in anumerous

Rem A. A cress' ned State mais tost document number

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Emergency Pesconse Cleanup Household Generated Recycled Precious Metals Recycled, Reclaimed, Used or Relised Universal Waste

INTERNATIONAL SHIPMENTS

Exports: Transporters must suon and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure, from the United States.*

Importal Pripare haidth sown i la each Flyd 505 i wolladeit will tri ik byt bolain sambabler golla i bit fora Unito in Hama dous Waste Manitest, Any person tinotioning as to billish in porten as before an ination t must complete the manifest as required in R290.5410.1

Transporters of hazardous waste shipments in roll deriver a copy of the manifest but if it is a control. importing or exporting the waste allows U.S. borders. Record the foreign waste man two Company to the fi

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and 2000 heroitest) make the white und gold bonifed copies and also the remainder of the inpultest comes it, the transremining the white and group out into counting as a given the remaining over a more partial to entire and as the Color of the white counting the COLOR of the the Color to be color of the color of group of the interest flow of the color of the control of the color portal an and mail a photocopy of the second generator in an resilicity, where rock vec

TRANSPORTER: I pon delivery to the designated for offerhale) firming and that for 11, signs and dates the manifest the callary hundred copy witibe returned to you. If move than drivin barrage for it bused, the number sit to except ediand sit opied in the dievious transporter acknowled is in the riving of the above entry manustratio pooter. The canery partied copy stays with the init in the country of the active. the designated factory

DEDIGNATED FACERIX (1), 13 at 71, and being the malifest as received, give the 10 or benuild The state of the s protot e

AUDBERS ALL MILED MAKIFLEST COPIES TO:

WASTE MANAGEMENT & VILION MICHIGAN DEPARTMENT OF ENVIRONMENTAL GUALITY PO EOX 3003B LANSING MI 48909-7538

The public recording burden for this collection of information is estimated to average 31 minutes for generators 16 minutes for bursporters and 16 minutes for breathead at 1 minutes for the collection or information is estimated to average 6 minutes for generators, 3 minutes for transporters, and 0 minutes for breathead sounds with the collection of information is estimated at 1 hour and 15 minutes annually. Burden means the total time effort or financial resources expended by persons to generate, may fain, now nor discuss or provide information to or for a Federal Rule by

რი დელიე max mot დიისაშ ი ვილიები. მის მე**ლ ფით ი იმ, მაგარი ხა respond ხე, გ დარალი**ის მან დადაგების ქალი და განატების მელი და განატების მანატების o 48 CFF Chauter 13. Send comments regarding these burden statements or any other aspect of the outlegand, including suggessors for reducing my outlets, accounting through use of untertain touristants outlets. Director, OPPE Regulatory Information Division. U.S. Environmental Protection Agency (2:37), 401 M.St., S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs. Office of Management and Budget, Attention: Desk Officer for EPA, 725 17th Series, N.W., Washington, D.C., 20503. Include the DMB control number in any porrespondence.

MICHIGAN RECOVERY SYSTEMS, INC. Land Disposal Restriction Notification Form

Generator:	Morey	Corp.	EPA ID #	ILD025415266	Manifest # A	1490008
	ste codes and	d check the appropriate box (K) Non-Wastewater () () Non-Wastewater ()	Wastewater c	()	e manifest reference Non-Wastewater ()	d above) Wastevar
						,
		or prohibition levels exceeds n 268,40 "Treatment Standa			re applicable hazarde	ous waste
Chec	k Manifest Lie	ne Item #:		Wastewater	Non-Wastewater	
Onco	il Present	ic item ii.	•	mg/Lor	mgA or	i
11a. 11t		11d. Constituents of	Concern CAS#	Technology Code	Technology Code	
. Listed I	Hazardous W	/astes F001,F002,F003,F0	04, F005-Solvents	wastes that contain any	of one or more of th	ie followni
		Acetone	67-94-1	0.28	160	
		Benzene	71-43-2	0.14	10	
			71-36-3	5.6	2.6	
		n-Butyl alcohol	75-15-0	3.8	NA	
		Carbon disulfide Carbon tetrachlonde		0.057	6.0	
				0.057	6.0	
	 -	Chlorobenzene	108-90-7	0.11	5.6	
		o-Cresol	95-48-7			
		m-Cresol	108-39-4	0.77	5.6	
		p-cresol	106-44-5	0 77	5.6	
		Cresol-mixed isomer		0.88	11,2	
		Cyclohexanone	108-94-1	0.36	NA	
		o-Dichlorobenzene	95-50-1	0.088	6.0	
		Ethyl acetate	141-07-6	0.34	33	
		Sthyl benzenc	100-41-4	0.057	10	
		Ethyl ether	60-29-7	0.12	160	
		Isobutyl alcohol	78-83-1	5.6	170	
		Methanol	67-56-1	5.6	NV	
		Methylene chloride	75-09-2	0.089	30	
		Methyl ethyl ketone	78-93-3	0.28	36	
		Methyl isobutyl ketor	re 103-10-1	0.14	33	
		Nitrobenzene	98-95-3	0.068	14	
		Pyridine	110-86-1	0.014	16	
		Tetrachloroethylene	127-18-4	0.056	6 , 0	
		Toluene	108-88-3	0.080	10	
		1,1,1-Trichloroethane		0.054	6.0	
		1,1,2-Trichloroethand		0.054	6.0	
				0.034	0.0	
		1,1,2-Trichloro-1,2,2-		0.007	20	
		trifluoroethane	76-13-1	0.057	30	
		Trichloroethylene	79-01 <i>-</i> 6	0.054	6.0	
		Trichloromonofluoro-				
		methane	75-69-4	0.020	30	
		Xylene-mixed isomer	s 1330-20-7	0.32	30	
		F003 and/or F005 so	pivent wastes that o	contain any combination d F001-F005 solvents	of one or more of th	ie.
		Carbon disulfide	75-15-0	3.8	4.8 mg/LTCLP	
		Cyclohexanone	108-94-1	0.36	0.75 mg/LTCLP	4
			67-56-1	5.6	0.75 mg/LTCLP	4
		Melhanol.	07-30-1	J.U	g · ·	Š
		F005 solvent waste o	ontaining 2-Nitropro	opane as the only listed	F001-5 solvent.	MOR 000414
		2-Nitropropane	79-46-9	WETOX or CHOXD	INCIN	∑ ⊠
				16 CARBN; or INCIN		

				·····				
				Waste	If applicable			realment Standard
				Code	Subcategory	·	anc	Nor prohibition levels
								
 -								
2. C	alifornia	List Wa	ste	This shipment contains haza California List waste treatmo			al RCRA	A Section 3004(d)
				_ Liquid waste with PCB's >50				
				_ Liquid waste that contain ha				
				1,000 mg/l or 1000 mg/kg (r Appendix III)	ioniiquias).(Tr	CINERATION) (HC	JUS IOUI	nd in 40 CFR 200.32.
				Nickel (liquid waste)>134 pp				
				_ Thallium (liquid waste) >130	ppm			
3. H:	zardou	Waste	Chara	cteristics				
				No additional hazardous was			by this v	waste which would
.,				require treatment beyond the				
<u> </u>				Treatment standards for the	additional ha	izardous waste cha	ractenst	ics exhibited by this
				waste are indicated below.				
		lanifest l	ne Iteپ	m #;		Wastewate	eı	Non-Wastewater
	if	Present			CASH	mg/Lor		mg/Lor
1a.			une Ite	m #: Constituents of Concern	CAS #			· -:
1a,	if	Present		Constituents of Concern	(TOC)	mg/Lor Lechnology C N/A	Code	nigA or Technology Code RORGS or CMBST
1a.	if	Present		Constituents of Concern D001-Ignitable Hi TOC(≥10% D001-Ignitable Liquids excep	(TOC) of Hi TOC	mg/Lor Lechnology C N/A DEACT & meet 2	268.48**	nigA or Technology Code RORGS or CMBST DEACT & meet 268,48
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la.	if	Present		Constituents of Concern D001-Ignitable Hi TOC(≥10% D001-Ignitable Liquids except managed in non-CWA or endirection non-Class 1 SDWA system D001-Ignitable Liquids except managed in CWA or equivalent/Class1 SDWA or equivalent/Class1 SDWA system D002-Corrosive managed in equivalent/Class1 SDWA system D002-Corrosive managed in equivalent/Class1 SDWA system D004-Arsenic D005-Banium D005-Banium D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury subcategory)	6TOC) of Hi TOC quivalent/ ns of Hi TOC alent/Class 1 non-CWA DWA system CWA or ystems 7440-38-2 7440-39-3 7440-47-3 7440-47-3 7439-97-6 7439-97-6 7439-97-6	mg/l or Lechnology C N/A DEACT & meet 2 or RORGS or C DEACT SDWA systems DEACT & meet 2 or S.0 1.0 5.0 5.0 N/A N/A N/A	268.48** :MBST	Technology Code RORGS or CMBST DEACT & meet 268.48 or RORGS or CMBST DEACT DEACT DEACT S.O mg/l EP or TCLF 100.0 mg/l TCLP 1.0 mg/l TCLP S.O mg/l EP or TCLF RMERC RMERC 0.2 mg/l TCLP N/A
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· 3. Hazardous Waste Characteristics (con't)

For non-wastewater waste streams that have any of the hazardous waste characteristics on this page checked, include the Inderlying Hazardous Constituents Form with this LDR form

Check Manifest Une Item # d Present		lem#			Wastewater mg/Lor	Non-VVa: ng/		
12.	116.	11c.	11d.	Constituents of Concern	CAS #	Technology Code	Technolo	
				0012-Endrin	72-20-8	BIODG or INCIN	013 &	meet 268 48
				Endrin Aldehyde	7428-93-4	BIODG or INCIN	0.13 &	meet 268 48
				D013-Lindane				
				alpha-8HC	319-84-6	CARBN or INCIN	0.066 &	meet 268,48
				beta-BHC	319-65-7	CARBN or INCIN		meet 268,48
				delta-BHC	319-68-8	CARBN or INCIN		meet 268 48
				gamma-BHC (Lindane)	319-65-7	CARBN or INCIN	୦.୦େ ଅ	meet 268,48
				D014-Methoxychlor	72-43-5	WETOX or INCIN	0.18 ዴ	meet 268,48
_				D015-Toxaphene	8001-35-2	BIODG or INCIN	2.6 & ا	meet 268,48
_				D016-2,4-D	94-76-7	CHOXD, BIODR or INCIN	10.0 & 1	meet 268,48
				D017-2,4,5-TP	93-72-1	CHOXD or INCIN	7,9 & i	nect 268 48
-				D018-Benzene	71-43-2	0.14		meet 268 48
-				D019-Carbon Tetrachloride	56-23-5	0.057		meet 268.48
-				D020-Chlordane	57-74-9	0,0033		meet 268.48
				D021-Chlorobenzene	108-90-7	0.057		meet 268,48
-				D022-Chloroform	67-66-3	0.046		meet 268 48
				D023-o-Cresol	95-48-7	0.11		meet 268.48
•				D024-m-Cresol	108-39-4	0.77	56 &	meet 268 48
				D025-p-Cresol	106-44-5	0.77		meet 268 48
				D026-Total Cresol	1319-77-3	0 88		meet 268,48
				D027-p-Dichlorobenzene	106-46-7	0 090		neet 268,48
•				D028-1,2-Dichloroethane	107-06-2	0.21		neet 268,48
				D029-1,1-Dichloroethylene	75-35-4	0.025		neet 268.48
•				D030-2,4-Dinitrotoluene	121-14-2	0.32		neet 268,48
				D031-Heptachlor	76-44-8	0.0012		nect 268.48
•				Heptachlor epoxide	1024-57-3	0.016		neel 268,48
				D032-Hexachlorobenzene	118-74-1	0,055		nect 268.48
-				D033-Hexachlorobutadiene	87-68-3	0.055		nect 268,48
-				D034-Hexachloroethane	67-72-1	0.055		neel 268,48
•		· 		D035-Methyl ethyl ketone	78-93-3	0.28		nect 268.48
_				D036-Nitrobenzene	98-95-3	0.068		nect 268.48
-				D037-Pentachlorophenol	87-86-5	0.089	7,4 & n	nect 268,48
-				D038-Pyridine	110-86-1	0.014	16.0 & n	neet 268,48
-				D039-Tetrachloroethylene	127-18-4	0.056		neel 268.48
-				D040-Trichloroethylene	79-01-6	0.054	6 <u>.</u> 0 & n	nect 268,48
-				•	95-95-4	0.018	74 & 0	neel 268.48
_				D041-2,4,5-Trichlorophenol D042-2,4,6-Trichlorophenol	88-06-2	0.035	74 & 0	neet 268 48
				•	75-01-4	0.27		nect 268 48
				D043-Vinyl Chloride	13-01-1	·		

1 am aware that there are significant penalties for submitting a false certification, including the possibility of a line and impresonment

Company Name,	MORE	CORP.	
Authorized Signature.	Ric) h	 Date: 5.2/-97

MICHICAN RECOVER ENDITED IN Underlying Hazardous Constituents Form

Manifest Doc.#:			Line Item		MRSI Approval Number	
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Circle those regulated constituents which can reasonably be expected to be present, at the point of generation of the

hazardous waste described above, at a concentration above the specified treatment standard Acenaphthylene 1,2-Dibromo-3-Chloropropane Phenol Famphur Phorate Accaphthene Ethylene dibronide Flooranthene Acetone Dibromomethane Fluorene Acctonitate 2,4,-D Heptachlor Acetophenone o-p'-DDD Heptachlor epoxide 2-Acetylaminofluorene Pyrene ρ, ρ -DDD Hexachlorobenzene Acrolein Pyridine o.p -DDE Hexachlorobutadiene Acrylamide Safrole p.p'-DDE Hexachlorocyclopentadiene Acrylonitale o.p'-DDT **HxCDDs** Silvex Aldnn 2,4,5-T **HxCDFs** ρ, ρ '-DDT 4-Aminobiphenyl Hexachloroethane Dibenz(a,h) anthracene Aniline Dibenz(a,e)pyrene Hexachloropropylene TCDDs Anthracene m-Dichlorobenzene Indeno(1,2,3-c,d) pyrene TCOFS Aramite o-Dichlorobenzene Iodomethane alpha-BHC p-Dichlorobenzene Isobutyl alcohol beta-BHC Dichlorodifluoromethane Isodrin delta-BHC 1.1-Dichloroethane Isosaírole gamma-BHC Toluene 1.2-Dichloroethane Kepone Benzene Methacrylonitrile 1,1-Dichloroethylene Benz(a)anthracene trans-1,2-Dichloroethylene Methanol Benzal chloride 2.4-Dichlorophenol Methapyrilene Benzo(b)fluoranthene Methoxychlor 2.6-Dichlorophenol Benzo(k)fluoranthene 3-Methylcholanthrene 1,2-Dichloropropane Benzo(g.h.i)perylene 4.4-Methylene biscis-1,3-Dichloropropylene Benzo(a)pyrene trans-1,3-Dichloropropylene Methylene chloride Bromodichloromethane Dicldrin Methyl ethyl ketone Methyl bronvde Methyl isobutyl ketone. Diethyl phthalate 4-Bromophenyl phenyl ether 2,4-Dimethyl phenol Methyl methacrylate n-Bulyl alcohol Methyl methansulfonate Dimethyl phthalate Butyl benzyl phthalate Di-n-butyl phthalate Methyl parathion 2-sec-Butyl-4,6-dinitrophenol Naphthalene 1.4-Dinitrobenzene Carbon disulfide 4.6-Dinitro-o-cresol 2-Naphthylamine Carbon tetrachloride 2,4-Dinitrophenol o-Nitroaniline Antimony Chlordane Arsenic 2,4-Dinitrotoluene p-Nitroaniline Barium p-Chloroaniline 2,6-Dinitrotoluene Nitrobenzene Cadmium Chlorobenzene 5-Nitre-o-toluidine Di-n-octyl phthalate Chlorobenzilate o-Nitrophenol p-Dimethylaminoazobenzene 2-Chloro-1,3-butadiene Di-n-propylnitrosamine p-Nitrophenol Chlorodibromomethane 1.4-Dioxane N-Nitrosodiethylamide Fluoride Chloroethane N-Nitrosodimethylamine Diphenylamine Lead xs(2-Chloroethoxy) methane **Diphenylnitrosamine** N-Nitrosodi-n-butylanıne >>s(2-Chloroethyl) ether N-Nitrosomethylethylamine Mercury 1.2-Diphenyl hydrazine Nickel Chlorolorm Disulfoton N-Nitromorpholine Selenium N-Nitrosopiperidine >>s(2-Chloroisopropyl) ether Endosulfan I Silver >-Chloro-m-cresol Endosulfan II N-Nitrosopyrrolidine Sulfide Endosullan sullate !-Chloroethyl vinyl ether Paratluon Thalkom Chloromethane Endrin Total PCBs Pentachlorobenzene Vanadium 1-Chloronathalene Endan aldehyde *-Chlorophenol Ethyl acetate **PeCDDs**

PcCOF:

Phenacelin

Pentachloroethane

Pentachlorophenol

Pentachloronitrobenzene

·· Chloropropylene

Thrysene

-Cresol

1-Cresol

-Cresol

......

Elliyl cyanide

Elliyl benzene

Ethyl methacrylate

bis(2-Ethylhexyl)phthalate

Ethyl ether

Phthalic acid Phthalic anhydride Pronamide 1,2,4,5-Tetrachlorobenzene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 2,3,4,6-Tetrachlorophenol Toxaphene Bromoform 1,2,4-Tuchlorobenzene 1.1.1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichloromonofluoromethane 2,4,5-Trichlorophenol 2,4,6-Inchlorophenol 1,2,3-Trichloropropane 1, 1, 2-Trichloro-1, 2, 2-Influoroethar ths-(2.3-Dibromopropyl)phosphate Vinyl chloride Xylenes-mixed isomers Chromium (total) Cyanides (total) Cyanides (Amenable)

MOR 000417

DEQ

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-608-292-4708 OR OUT OF STATE AT 817-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-608-424-6622 24 HOURS PER DAY.

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

DO	NOT	WRITE	IN	THIS	SPACE

ATT. DIS. REJ. PR.

Hequired under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

Please print or type				F	orm Approved. OM	IB No. 205	0-0039
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US 11.002541526		Manifest Document No. 363033	1			he shaded areas ed by Federal
3. Generator's Name and Mailing AdMIREY CORP. 2659 NTSCONSIN AVENUE, DOL-	WERS GROVE, I	L 60515 0) 964-2300		N	Tate Manifest ([#] () () ()	081	nt Number
ENUTROPPENTAL CORRESTE NEERVIC	ES 6.	1 Page 80 1921	Alliper	0.8	ald Transporte	(all)	
7. Transporter 2 Company Name 021NGA TRANSPORTATION SYST	EMS I	US EPA ID N 1L.D98206	lumber 57175		ng nankhing Naphners Pho	CO.	
9. Designated Facility Name and Site MICHIGAN RECOVERY SYSTEMS, 36345 VAN BORN RD. ROMULUS, MI 48174). US EPA ID N M10060975		G S	no Facility	2	
11. US DOT Description (including Proj HM ID NUM		Hazard Class, and	12.Cont	Type	13. Total Quantity	14. Unit	I. Waste
RO WASTE FLAMMABLE L AND AROMATIC HYDROCA 3 UN1993 PG 11 (DOM	RB(NS)	(ACIPHATIC	001	ÚM	OD 55	G	*100 () **
A b.							子が
c.							
d.							
Jacobs Additional Descriptions for Mater							COLUMN INC.
Fuergency Contact # (630) 16. GENERATOR'S CERTIFICATION: I hereby		e of this consignment are	fully and accura	taly das	crihad shows hy n	roper shir	nning name and are
classified, packed, marked, and labeled, a government regulations. If I am a large quantity generator, I certify to be economically practicable and that I h present and future threat to human health generation and select the best waste markets.	nd are in all respects in that I have a program in ave selected the practics and the environment: 0	place to reduce the voluments method of treatments of the country	nsport by highwone and toxicity of the storage, or districtly generator. It	ay according to the sposal of	eding to applicable generated to the surrently available	e interna e degree i to me wi	tional and national I have determined nich minimizes the
Printed/Typed Name	Mice	Signature		۰ .		Ž	2521 Ai
17. Transporter 1 Acknowledgement of Printed/Typed Name THOMAS LA	(KE)	Signature	mini >	التحص	charge	K	Date 501 1647
	Receipt of Meterials	Signature	tony	140	desone		0ate 2521177
19. Discrepancy Indidation Space			/		MC	OR 00	0418
20. Facility Owner or Operator: Certification 19.	tion of receipt of haze	ardous materials cover	red by this mi	nifest	except as noted	d in	Date
Printed/Typed Name		Signature	Coster	سعون		~ K	Jania Day Year

General Instructions

Read with natives one service completing this force. This to be hus been designed to like on a fix pilon of felhypewriterroomspuriar printer, a tirm boint pan may a so be used it press gliver hard. Ensure all coskes are 19.75 B.

Federal and state regulations require generalities and transporte a of haza discs wildle. In tilt which or quelato is at riarardicus waste treatment ist rage, and disposal turviliase to use this form (8700-22) and if medissary, the continuation sheet (Form 670C-22A) for both interior programme transportation of hazard our weste as defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111). State regulations also require the use of this manifest for all regulated shipments of figure industrial wastelesined, medicinal 121 of Act 451 of 1994, as amended (Part 121)

Federal and State regulations provide for additional requirements not included in these instructions, regarding the use and management of this form (40CFR, 46CFR, Part 111, Part 121)

Additional information such as "Rejected Load Procedures", state assigned, dentification numbers, manitest forms, etc., can be obtained by contacting the Michigan Department of Environmental Quality (MDEQ), Weste Management Division's (WMD) Internet Home Page at: http://www.deg.state.mi.us.wmd.or.you.may contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MDEQ

Complete all items on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

from 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (a.g. 00001).

Item 2. Pean number 1 of 1 should be recorded unless a continuation sheet is used in which case the total furnition of pages, counting the initial marriest page, should be shown

Ram 3. Enter the name of the generator and the mailing address to which the manifest should be mailed. If the address of the site at which the waste was placed into transportation is different from the making address record the site address in Item J

Rem 4. Enter a telephone number (including area code, whore an authorized agent of the generator can be reached in the event of an emergency and/or a partial or total rejected load.

NOTE: The 24 hour emergency phone number required for a hazaroous materials structing paper may be different from the generator's phone number

Rem 5. Enter the company name of the first transporter who will hansport the waste

flom 6. Emer the transporter's U.S. EPA twelve digit identification number. For Part 121 manifesting shipments where a transporter does not have a U.S. EPA assigned in their, a state assigned in their a to

Rem 7. If using a second transporter, enter the oppingary name

Rem 8. Enter the second fransporter's U.S. EPA, twelve digit identification number. For Fig. 1.20. fested shipments where a transporter oces for have a U.S. EFA, assigned number is single conjust. number is to be used.

NOTE: If more than two transporters are used the generator or third transporter shall impute a point of above sheet. In nem L of the continuation sheet, the generalogyanaporter must copy the State manifest document number lated in herr. A. Every transport company used between the generator and the designed facility (except for intermediate rail of panje transporters used between the initial rail or transporters and the designated facility) must be listed. This is not intended to require multiple signatures for interitial drivers working for one transporter. Item 2 is to be changed to reflect the added page(a). Communition sheets must be appropriately completed in their entirety and properly distributed. Continuation ensets may not be used to list additional waste streams.

Stam 9. Enter the company name and site address of the facility designated to receive the waste listed on

m 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in ham 9. For Part 121 manifested shipments where a designated facility does not have a U.S. EPA assigned stumber, a state assigned number is to be used

from 11. Enter an X in the MM pox. If the waste is a hazardous motor of regulated by U.S. DOT. (See 49) OFR 172). Enter the required U.S. DOT shipping description, including Proper Stipping fearle, Hazard Class or Division, 10 Number (UNNA), and backing group for each waste as delittled in 43 CFR 172. Additional information may also be required in this space, including rechnical name and reportable grantity. references. For only Part 121 regulated wastes include an appropriate shipping description for the waste STORM

Rem 12. Enter the number of containers for each waste and the appropriate above violibris listed below to the type of container. Each container type requires separate entry

DM = Metal drums, berrets, kegs

DW - Wooden drum, barrels, kings.

DF - Fiberboard or plastic drums, barrels, kegs

DT - Dump Truck

TP = Tenks, portable

TT = Cargo tanks (tank trucks)

TO a Tank care

CV - Cylinders

CM = Meta, boxes, cartons, cases finduding roll-offs)

CW = Wooden boxes, cartons, cases

OF a Riber or plastic boxes, carryin cases

BA = Burlap, cloth, paper/plastic tiegs

from 13. Enter the total quantity of waste described on each line. Do not use decimals or fractions

from 14. Enter the appropriate abbreviation for the unit of measure I sted below.

G - Gallons Alguida onlid

~ Pounds

T = Tons (2000 tb)

Y - Cubic Yards L = Ligers (Liquids aniv)

K » Kuograms

M = Metric tons (1000 kg)

N = Cubic meters

MOR 000419

Item 15 $^{-1}$ is generally may use this space to indicate special transportation, beautient, storage or γ_{i} dispuse intum ation. Import/Extrod information as noted in the finternational Scioment instructions section is to be room be there

them 16. The gare strong a mead print his processing large date the segification state ment

from 17. Point the name of the least of contact of the wastern internal or nights pansawith. That our spemust anknowledge acceptance of the weste described on the manifest by signing and entering the diss of 15, 600

Nem 18. If applicable, point the name of the person according the waste on berialt of the second tipraprinted. First passing must acknowledge acceptance of the existe described on the manifest by signing

Rem 19. An authorized representative of the designated for a rematel facility must note in this space any

from 20. Print the name of the person accepting the waste on behalf of the designated feoility. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the dute of recent

NOTE; MOEQ "Rejected Load Procedures" provides guidance for partial or total load, rejections

Only the following information in the shaded area is a State of Michigan requirement:

hem A. A preprinted State manifest document number

from B - H. May be read rea by other states

Item 1. For hazardous wastes, enter the appropriate waste numbers found in R229 9212 through FR09 9214 of Part 111 and 40 CFR 261 Subcarts Cland D. If more than one waste number is required to appropriately identify the waste, enter the appropriate instremular selecting the most appropriate waste number the following hierarchy must be used: acute waste (including P and acute F), U (for u), Kestination and tacks, item-violite F (non-specific sources) and D (characteristic). State inequiated wastes Mildwithe same nierorony as federally regulated wastes. For Part 125 wastes which are not nazur tous wild's enter the appropriate code listed below

Moved a weems	0071
Phain pulvutical	2146
Clarikuase Of	0171
Condins and Mater Solube Oils	1190
ments their terminament criterius	CETE
Bru 6	ice.
E. &	UPFL
Caner waster glass, being semilar pricumity,	3.71
1 C & D	C35,

Mem 3. The many state is vase this scales to the site as never to mele, in playing intra or got this as noted in frem is, and for the mass soules, as out one inference to the many times as the second or the secon instructions, approval of commingling authority as required in ROGH 95T4 F.

from Acid Science September 12 SOCIAL ACID.

Burressur directly Recovery	ú	
Condition by Exempt simal Quarity General 7	10	
Етнецинсу Ревропѕе Стевлир	E	
Household Generated	н	
Recycled Predious Metals	P	
Recycled, Reclaimed, Used or Reused	9	
Universal Waste	U	

INTERNATIONAL SHIPMENTS

Exports-Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exponer must identify the point of departure, from the United States.⁴

imports. Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA. form Hazardous Waste Mandest. Any person functioning as the U.S. (importer, as defined in Part 111, must complete the manifest as required in R299 9310 *

*Transporters of hazardous waste shipments must deliver a copy of the manifest to U.S. Customs when importing or exporting the waste across U.S. borders. Record the foreign waste manifest conument number in deat 15

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates manifest) remove the white and gold bandled copies and give the remainder of the manifest copies to the trans-Send the white copy to MOEO no later than the tenth day of the prooff following the shipment. For shipments of weaters bring transported to a designated facility butside of Michigan when an out-of-state manifest is used, mail to the MDEQ a photocopy of the manifest when the shipment is placed into transportation and mail a photocopy of the second generator manifest copy, when received

TRANSPORTER: Upon delivery to the designated (or alternate) facility and that facility signs and dates the manifest, the canary banded copy will be returned to you. If more than one transporter is used, the manifest is to be copied and subplied to the previous transporter admoviedging the robust of the ship-ment by the nexitransporter. The canary partied copy stays with the manifest until the shipment reaches the designated facility

DESIGNATED FACILITY. Upon signing and dating the manifest as received, give the callary banded by to the transporter. Peturn the blue banded copy to the generator. Mail the bink benden copy to the MOLO instate than the sounday of the month following receipt of shipment

ADDRESS ALL MIDEO MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

The public reporting burden for this collection of information is estimated to average 31 minutes for generations, 16 minutes for transporting, and 16 minutes for treatment, storage, and disposal facilities. The record livesping burden per tesponse for this collection of information is estimated to average 6 minutes for generators, 6 minutes for transporters, and 6 minutes for treatment, storage and disposal facilities. The burden associated with reading the requisition's is estimated at 1 hour and 15 minutes annually. Burden means the total time, effort, or financial resources expended by persons to generate, maintent, retain, or dispose or provide information to or for a Federal Rigericy.

ay not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid GMB control number. The GMB numbers for EPA's regulations are listed in 40 CFR Part againty may not conduct or sportsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB numbers for EPAs regulations are stated in 43 CFR Part (a) Chapter 16. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including shrough use of automated contents or the other parts of the ORB control in the ORB control in the ORB and to the ORB control information and Regulatory Atlants, Office of Management and Budget, Jack Officer for EPA, 725 17th Street, N.W., Westhington, D.C. 20503. Include the ORB control number in any correspondence.



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF **ENVIRONMENTAL QUALITY**

DO NOT WRITE IN THIS SPACE

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mequired under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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January Strategick The edition of the letter of the de-475--I then the Season of Commerce Co. of outsignate treatment, of stage, and discussions have less to use this form involved a work of hadesiving the continuation sheet (Form 4700-22A) for both intercured influence transfer factor this waste as defined in 40 CFR and Part 111 of Act 451 of 1994, as a mended (Part 111). State regulations in precious the use of this manifest for all repulled from energy income mount all wells are: 121 of Act 451 of 1994, as amended (Part 121).

Federal and State regulations provide for additional requirements and more than these his topotions, regarding the use and-management of this form (40CFR 40CFR Part 111, Fart 121)

Addisonal information such as "Rejected Load Procedures", state a stig. He internet cacket a cooperations fast forms, etc., can be obtained by contacting the Michigan Department of Environmental Quality (MDEQ). Waste Management Division's (WMD) Internet Home Page at: http://www.dog.stc/aim.us.windio/journey contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MOEG.

Complete all items on the manifest. Enter "N/A" If any from does not again, Leave items that may be needed later blank, such as second transporter.

item 1. Enter the generator's U.S. EPA twelve digit identification number. For Part 121 manifested ship ments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five dry timanifes) document number (e.g. 00001).

item 2. Page number 1 of 1 should be recorded unless a continuation sheet is used in which have the folianumber of pages, counting the initial manifest page, should be shown

Rem 3. Enter the name of the generator and the mailing address to which the mannest should be maked If the address of the site at which the waste was placed into transposition in a partition in the many of a address record the site address in Item J.

ftem 4. Enter a telephone cumber on our log avoiding 4, with a unpurious fixing a control parameter cum be reached in the event of an emerce if y and/or a part with total rejected ida.

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ham 7. If using a second transporter without it is any name.

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NOTE: If more than two transporters are used in eigenerator or hid transporter share intelled by in the sheet. In them 4 of the continuation sheet, the generator/transporter must copy the Stute on the indirect more transporter must copy the Stute on the indirect more transporter more generator. 6.5. tractity (except for intermed Africa or not used to supply considerable to the ball of the constitution of divers working for one transporter. Here is in to be changed to reflect the added page(s). Community sheets must be appropriately completed in their entirety and properly distributed. Communition sheets may not be used to list additional waste streams.

ftem 8. Enter the company name and site address of the facility designated to receive the waste listed on this manifest

from 10. Enter the U.S. EPA twelve digit identification number for the designated facility described in Item 9. For Part 121 manifested ehipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used

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Item 12. Enter the number of containers for each waste and the appropriate appreciations listed boxes for the type of container. Each container type requires separate entry.

CV - Metal drims barrels, kegs

DA - Woorlen Blum, buite's requ

UF a Pa**berboard** or year and arms business ray a (is a Dump Frame

TP - Tark's possible

T = Cargo (anks tank trucks)

TC = Tank core

Clanders

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BA - Burlan coots page/outstations

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INTERNATIONAL SHIPMENTS

Exports: Transporters must skip and enter the date the waste leaves the United States in item 15. The primary exporter must identify the point of departure, from the United States,

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MANIFEST DISTRIBUTION

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ADDRESS ALL MOLO MAN FEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LANSING ME 489UR-7538

The public input trigles with factors and incomparation is estimated to inversige 31 minutes for generation, 16 minutes for properties, and 10 minutes and 10 minutes for the contract of the ted at 1 hour and 15 minutes annually. Burren means the total time, effort, or tinancial resources expended by paracrasia paparagrams from the or a contract of the contract of the paparagrams.

An agency may not construct an episons or area is consistent or equated to respond to a collection of information unless a distribuy a covering value DMB company of the PMB company of all and 48 CFR Chapter 15. Send comments roug ding these builders statements or any other aspect of his culeofon, including suggestions for realizing the curden, including through use of automated over-monetaring the curden, including suggestions for realizing the curden, including through use of automated over-monetaring through some to the Office of Information Division, U.S. Environmental Protection Agency (2.37), 40th MSL, 5.W., Washington, D.C., 20490 and to the Office of Information and Regulatory Affairs, Office of Management and Budget.

Attention Desk Officer for EPA 725 17th Screet, N.W., Washington, D.C. 20503 Include the OMB control number in any correspondence.



WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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and Part 121 of Act 451, 1994, as amended,

Failure to file may subject you to criminal and/or civil penalties under Section 324.11151 or 324.12116 MCL.

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Problem and state regulations reculan generators and transporters of figuratious waste and owners or operations of the products waste treatment of prage, and disposal rapidities to use this turnitipation(20) and if necessary, the communition sheet (Form 8700-22A) for both intervand intractive transportation of hazard ous waste as defined in 40 CFR and Part 111 of Act 451 of 1994, as amended (Part 111). State regulations also requite the use of this manifest for all regulated shipments of bould industrial waste as required in Part 171 of Act 451 of 1994, as amended (1991 121).

Federal and State regulations provide for additional requirements, not included in these instructions, regarding the use and management of this form (40CFR, 42CFR, Part 111, Part 121).

Additional information such as "Rejected Load Procedures", state assigned electrical on numbers, fest forms, etc., can be obtained by contacting the Michigen Department of Environmental Quality (MDEQ).

Waste Management Division's (WMD) Internet Home Page at: http://www.deg.state.ms.us/wmd.or.you.me/ contact the Manifest Unit directly at (517) 373-1217. Continuation sheets are not supplied by MDEG.

Complete all fleme on the manifest. Enter "N/A" if any item does not apply. Leave items that may be needed later blank, such as second transporter.

Item 1. Enter the generators U.S. EPA twelve digit identification number. For Part 121 manifested shipments where a generator does not have a U.S. EPA assigned number, a state assigned number must be obtained and used. The generator of the waste must enter a unique five digit manifest document number (e.g. 00001).

Nem 2.: Page number 1 of 1 should be recorded unless a continuation sheet is used in which case the total number of pages, counting the initial manifest page, should be shown

Nem 3. Enter the name of the generator and the mailing address to which the manifest should be mailed If the address of the site at which the waste was placed into transportation is different from the mailing address record the site address in Item J.

Item 4. Enter a telephone number (including area code) where an authorized agent of the generator can be reached in the event of an emergency and/or a partial or total rejected load

NOTE: The 24 hour emergency prions number required for a hazargous materials shipping paper in ay two different from the generator's phone number

Rem S. Enter the company name of the first transporter who we transport the way.

Hern 6. Enter the transporter's U.S. EPA twelve digit identification number. For Part 121 man fested ments where a transporter thesinot have a U.S. EPA assigned non-trainal state assigned no interest to be used.

from 7. If using a second transporter, enter the con pany name

Rem 8. Enter the second transporters u.S. EPA, twoive digit identification number. If we uit that the fested shipments where a bansporter dues out have a Life EFA lausigned ribinber le sture essigned. number is to be used

NOTE: if more than two transporters are used, the generator or hard transporter shall in hats a combination sheet. In item i, of the communition sheet, the generator/transporter must copy the State manifest room ment number listed in Item A. Every transport company used between the generator and the designed facility (except for intermediate ref or barge transporters used hetween the initial rail or barge carriers and the designated facility) must be listed ^ans is not producto require in Utplais gruppios for includa drivers working for one transporter, item 2 is to be changed to reflect the added page(s). Continuation sets must be appropriately completed in their entirety and properly distributed. Continuation sheets may not be used to list additional waste streams.

from 9. Enter the company name and site address of the facility designated to receive the waste listed on the menitest

m 10. Enter the U.S. EPA twalve digit identification number for the designated facility described in Item 9. For Pert 121 manifested shipments where a designated facility does not have a U.S. EPA assigned number, a state assigned number is to be used.

Rem 11. Enter an X in the HM box, if the waste is a hazardous material regulated by U.S. IXXI. (See 49. CFR 172) Enter the required U.S. DOT shipping description or banking Proper Shipping Name, Hazard Class or Devision (D.Number (UNNA), and packing group for each waste as identified in 49 CFR 172. Additional information may also be required in this space, including technical name and reportable quantity references. For only Part 121 regulated wastes include an appropriate shipping description for the waste

item 12. Enter the number of containers for each waste and the appropriate abbreviations listed below for the type of container. Each container type requires separate entry

DM = Metal drums, barrels, kegs

DW = Wooden drum parreis, kegs

DF = Fiberboard or plastic grums, barrels, kegs

DT = Dump Truck

TO . Terks, contable

TT - Cargo famile frank trucks) TC = Tank care

CY = Cv4ndere

CM = Metal boxes, partons, pases (including roll-offs) CW - Wooden boxes, cartons, cases

CF a Finer or plastic boxes, cartons, cashs

BA = Burlap, crath, paper/plastic page

from 13. Enter the lotal quantity of waste described on each line. Do not use decimals or reactions.

item 14. Enfor the appropriate above, after for the unit of measure listed below

G = Gailons (liquids only)

Pia Pounds

T = Tons (2000 tb.)

Y = Cubic Vards

L = Liters ("Quids only) K = Kilos/ams

N = Cubic meters

M = Metric tons (1600 kg)

Item 15. The generator may use this space to indicate special transportation treatment, storage or distribution of conference information as noted in the "International Shipment" instructions or to be text, postbere

ttom to The year of ing the true to stand he have you Committee of the Commit

main 17 First the hane of the gersuit accepting the was a unider all of the first transporter. That persuit must apknowledge acceptance of the waste described on the manifest by signing and entering the dark of races of

from 18. If applicable, print the name of the person accepting the waste on behalf of the second transtiviter. That persist in hist approviegon andeptating of the waste described on the manifest by sine no and entering the data of receipt.

filem 19. An authorized representing velocity is the sphaked for a terriated facility must note in this space any discrecancy in the waste shipment

Rem 20. Print the name of the person accepting the waste on behalf of the designated facility. That person must acknowledge acceptance of the waste described on the manifest by agning and entering the date of tenent

NOTE: MDEQ "Rejected Load Procedures" provides guidance for partial or total load rejections

Only the following information in the sheded area is a State of Michigan requirement:

Rem A. A preprinted State manifest document number

from B - H. May be required by other states.

ffeith I. For frazardous wastes, enter the appropriate waste numbers found in R229 9212 through 8299 9214 of Fart 111 and 41 OFR 261 Supports Claric D. If more than one waste number is required in appropriatory identity the waster enter the additional numbers in Item up in selecting the most appropriate waste number the following hierarchy must be used: acute waste (including Pland acute F). Ul(toxic) K which clauses in rescule? (non specific whiteshard Directivations). State regulated knotos from the same hierarchy as federally regulated wustes. For Part 121 wastes which are not hazarduse will tell enter the an incorrect code fished below

Mixed a piver to	0.07_
in i mai el nos	2142
Cranicuse Cii	3176
Provinces and Autor Society City Oils	
The Signer of the Bris.	
Brne .	9225
PCB	1.01-
Offier washing Cestilities in termithion hemility	64.36
1.00 mag to 1.00 m	J. 4.

them uniform with an exercise of isopate to the content of a first ending undescended to the content of a content of the conte conditions, authoration and among right annihity as lequitors a 9293 9304(s)

TRACK LIST A NEW YORK THE WILLIAM ST.

From Edward Republican	,	
Constrainally Exempt Smarl Quarity Generate:	<u>_</u>	
Emergency Response Cleanup	E	
Household Generated	н	
Recycled Precious Metals	P	
Recycled, Reclaimed: Used or Reused	A	-
Universal Waste	U	

INTERNATIONAL SHIPMENTS

Exporter Transporters must sign and enter the date the waste leaves the United States in Item 15. The primary exporter must identify the point of departure, from the United States.*

Imports: Shipments of hazardous and Part 121 regulated wastes must be accompanied by a U.S. EPA. uniform Frazardous Waste Manifest. Any person functioning as the U.S. Importer, as defined in Part 111, thust complete the manifest as required in R299 9310.*

*Transporters of hazardous waste shipments must deliver a copy of the manifest to U.S. Custums when importing or exporting the waste across U.S. borders. Record the foreign waste manifest document number in item 15

MANIFEST DISTRIBUTION

GENERATOR: Upon placing the waste into transportation (first transporter signs and dates manded) remove the white and gold banded copies and give the remainder of the manifest copies to the trans-Send the wrate copy to MDEO no later than the term day of the month following the shipment. For sticments of wastes being transported to a designated faculty outside of Michigan when an out of-state standers used, may to the MDEO a photocopy of the manifest when the stipment is placed into transportal on and mail a photocopy of the second generator manifest may when received

TRANSPORTER: Upon delivery to the designated (or alternate) facility, and that facility signs and dates the manifest, the canary banded copy will be returned to you. If more than one transponer is used, the intendest is to be copied and supplied to the previous transporter adipowinding the receipt of the shipmentiny the next transporter. The carery banded copy stays with the manifest until the shipment reaches. the designated facility

DESIGNATED FACILITY. Upon eigning and daing the manifest as received, give the canary banded thoughts mention receiver. Recurrence by the condendancy to the generator. Mail the pink burnish cody to the MDD or instellment the 10th day of the month following receipt of shipment.

ADDRESS ALL INDED MANIFEST COPIES TO:

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PO BOX 30038 LANSING MI 48909-7538

MOR 000423

The public reporting burden for this collection of information is estimated to average 31 minutes for generators, 16 minutes for transporting, and 16 minutes for treatment, storage and disposal ractines. The record keeping burden per response for this collection of information is estimated to average 6 minutes for generators, 6 minutes for transporting, and 6 minutes for treatment, storage and disposal transfer. The burden associated with reading the regulatoris is estimated at 1 hour and 15 minutes annually. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency.

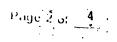
An agency may not conduct or sponsor and a rereon is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB numbers for EFA's regulations are listed in 40 CFP Perf and 49 CFR Chapter 15. Send comments regarding these burden statements or any other aspect of this collection, including suggestions for reducing the burden, including through use of automated collection techniques to the Director, OPPE Regulatory Information Division U.S. Environmental Protection Agency (2.37), 401 M St., S.W., Washington, D.C., 20480 and to the Office of Information and Regulatory Affairs, Office of Management and Budget.
Attention: Desk Officer for EPA, 725 17th Street, N.W., Washington, D.C. 20503. Include the OMB control number is any correspondence.

MICHIGAN RECOVERY SYSTEMS, INC. Land Disposal Restriction Notification Form

Page Lot ._4

Generator.	More	y Cor	p	EPA ID #:	ILD025415266	Manifest # MI V	616312
	iste codes a	and che	ck the appropriate box fo	r the waste desc	cribed on each line of th	ne manifest referenced :	though
·	D001) Non-Wastewater () W	aslewater c	()	Non-Wastewater () W	Vastewat
ь	<u></u> .	() Non-Wastewater () W	astewater d	(Non-Wastewater () W	Vastewai
			phibition levels exceeded .40 'Treatment Standard			ne applicable hazardous	waste
Chec	k Manifest		m #:		Wastewater	Non-Wastewater	
11a. 11l	if Present 5. 11c.		Constituents of Co	ncern CAS#	mg/l or Technology Code	mg/l or Technology Code	
1. Listed I	Hazardous	Wastes	F001,F002,F003,F004,	F005-Solvents	wastes that contain any	of one or more of the f	ʻollowng
			Acetone	67-94-1	0.28	160	
			Benzene	71-43-2	0.14	10	
			n-Butyl alcohol	71-36-3	5.6	2.6	
			Carbon disulfide	75-15-0	3.8	NA	
			Carbon tetrachloride	56-23-5	0.057	6.0	
			Chlorobenzene	108-90-7	0.057	6.0	
			o-Cresol	95-48-7	0,11	5.6	
			m-Cresol	108-39-4	0.77	5.6	
			p-cresol	106-44-5	0 77	5.6	
			Cresol-mixed isomers	1318-77-3	0.88	11.2	
			Cyclohexanone	108-94-1	0.36	NA	
			o-Dichlorobenzene	95-50-1	0.088	6.0	
			Ethyl acetate	141-07-6	0.34	33	
			Ethyl benzene	100-41-4	0.057	10	
			Ethyl ether	60-29-7	0.12	160	
			Isobutyl alcohol	78-83-1	5.6	170	
			Methanol	67-56-1	5.6	NA	
			Methylene chloride	75-09-2	0.089	30	
			Methyl ethyl ketone	78-93-3	0.28	36	
			Methyl isobutyl ketone	108-10-1	0.14	33	
			Nitrobenzene	98-95-3	0.068	14	
			Pyridine	110-86-1	0.014	16	
			Tetrachloroethylene	127-18-4	0.056	6.0	
			Toluene	108-88-3	0.080	10	
			1,1,1-Trichloroethane	71-55-6	0.054	6.0	
					0.054	6.0	
 _			1,1,2-Trichloroethane	79-00-5	0.034	0.0	
			1,1,2-Trichloro-1,2,2-			20	
			trifluoroethane	76-13-1	0.057	30	
			Trichloroethylene	79-01 <i>-</i> 6	0.054	6.0	
			Trichloromonofluoro-				
			methane	75-69-4	0.020	30	
			Xylene-mixed isomers	1330-20-7	0.32	30	
	•		F003 and/or F005 solve following three solvents	ent wastes that o	contain any combination	of one or more of the	
			Carbon disulfide	75-15-0	3.8	4.8 mg/LTCLP	
			Cyclohexanone	108-94-1	0.36	0.75 mg/LTCLP	4
			Methanol.	67-56-1	5.6	0.75 mg/l TCLP	MOR 000424
- 				J. 30 1		-	8
			F005 solvent waste con	Ininina 2 Mitropro	name as the only listed	F001-5 solvent.	Ō
				20 40 0	WETOX or CHOXD	INCIN	H.
			2-Nitropropane	79-46-9		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	¥
				•	fb CARBN: or INCIN		-

F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5 solvent. 2-Ethoxyethanol 110-80-5 BIODG or INCIN INCIN



		_		Waste	If applicable	c		realment Standard
				Code	Subcategory	•	an	d/or prohibition levels
	-			-			·····	
								
								
						····		
. C:	alifornia	List W	aste	This shipment contains haz California List waste treatm		•	onal RCR	A Section 3004(d)
•				Lincid comptantity DODL v.E	0			
				_ Liquid waste with PCB's >5		annia compouede	/HCC) :-	total concentrations
				_ Liquid waste that contain ha				
				1,000 mg/l or 1000 mg/kg (Appendix III)	nonliquias).(In	ACINERATION) (F	HOUS IOU	na in 40 CFR 268.32.
				Nickel (liquid waste)>134 pg	nm			
	• ——			Thallium (liquid waste) >130				
				(inquid Waste) > 130				
На	ızardous	Waste	Charac	cteristics				
				No additional hazardous wa			by this v	waste which would
				require treatment beyond th				
<u> </u>	· ——			Treatment standards for the	additional ha	zardous waste ch	aractenst	ics exhibited by this
				waste are indicated below.				
	Check M	lanıfest l	ine Iter	ור#;		Wastewa	ater	Non-Wastewater
		Present				mg/l or		mg/l or
a.	116.	11c.	11d.	Constituents of Concern	CAS#	Technology	Code	Technology Code
				D001-Ignitable Hi TOC(≥10	•	N/A	•	RORGS or CMBS
				D001-Ignitable Liquids exce		DEACT & meet		
				managed in non-CWA or e	-	or RORGS or	CMBST	or RORGS or CMBS
				non-Class 1 SDWA system D001-Ignitable Liquids exce		DEACT	-	DEACT
				-				DEACT
				managed in CWA or equiv			268 48**	DEACT & meet 268.4
				D002-Corrosive managed in or equivalent/non-Class1 \$			200,40	DEACT & Meet 200.
				D002-Corrosive managed in	-	DEACT	-	DEACT
				equivalent/Class1 SDWA s		DEAGI		DE/NO!
				equivalento Class 1 3DVVA	73(011)3			
				D004-Arsenic	7440-38-2	5.0		5.0 mg/l EP or TO
				D005-Barium	7440-39-3	100		100.0 mg/l TCLP
					7770 00 0	1.0		1.0 mg/l TCLP
					7440-43-9	• • •		5.0 mg/l TCLP
				D006-Cadmium	7440-43-9 7440-47-3	5.0		5.0 mg/l EP or TC
				D006-Cadmium D007-Chromium (Total)	7440-43-9 7440-47-3 7439-92-1	5.0 5.0	32	
				D006-Cadmium D007-Chromium (Total) D008-Lead	7440-47-3 7439-92-1		1425	
				D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury	7440-47-3 7439-92-1	5.0	00425	IMERC or RMERC
				D006-Cadmium D007-Chromium (Total) D008-Lead	7440-47-3 7439-92-1 7439-97-6	5.0	(000425	IMERC or RMERC
				D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory)	7440-47-3 7439-92-1 7439-97-6	5.0 N/A	JR 000425	IMERC or RMERC
				D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory)	7440-47-3 7439-92-1 7439-97-6 7439-97-6	5.0 N/A	MOR 000425	IMERC or RMERC
				D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury	7440-47-3 7439-92-1 7439-97-6 7439-97-6	5.0 N/A N/A	MOR 000425	IMERC or RMERC
				D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury subcategory)	7440-47-3 7439-92-1 7439-97-6 7439-97-6 7439-97-6	5.0 N/A N/A N/A	MOR 000425	IMERC or RMERC RMERC 0.2 mg/l TCLP N/A
				D006-Cadmium D007-Chromium (Total) D008-Lead D009-Mercury (High mercury organic subcategory) D009-Mercury (High mercury inorganic subcategory) D009-Mercury (Low mercury	7440-47-3 7439-92-1 7439-97-6 7439-97-6 7439-97-6	5.0 N/A N/A	MOR 000425	IMERC or RMERC RMERC 0.2 mg/l TCLP

3. Hazardous Waste Characteristics (con't)

For non-wastewater waste streams that have any of the hazardous waste characteristics on this page checked, include the Inderlying Hazardous Constituents Form with this LDR form.

Check Manifest Line Item #		Manifest Une Item #		,	Wastewater mg/Lor	Non-Wastewater rig/l or	
1a.	115.	11c.	11d.	Constituents of Concern	CAS #	Technology Code	Technology Code
					2	:	recimology code
				D012-Endrin	72-20-8	BIODG or INCIN	0 13 & meet 268,48
			-	Endrin Aldehyde	7428-93-4	BIODG or INCIN	0.13 & meet 268 48
				_ D013-Lindane			
				alpha-BHC	319-84-6	CARBN or INCIN	0.066 & meet 268,48
				beta-BHC	319-65-7	CARBN or INCIN	0.066 & meet 268.48
				delta-BHC	319-68-8	CARBN or INCIN	0.066 & meet 268.48
				gamma-BHC (Lindane)	319-65-7	CARBN or INCIN	0.066 & meet 268,48
				D014-Methoxychlor	72-43-5	WETOX or INCIN	0,18 & meet 268,48
				D015-Toxaphene	8001-35-2	BIODG or INCIN	2.6 & meet 268.48
				D016-2,4-D	94-76-7	CHOXD, BIODR or	10.0 & meet 268,48
						INCIN	
				D017-2,4,5-TP	93-72-1	CHOXD or INCIN	7.9 & meet 268.48
			-	D018-Benzene	71-43-2	0.14	10.0 & meet 268.48
				D019-Carbon Tetrachloride	56-23-5	0.057	6.0 & meet 268.48
				D020-Chlordane	57-74-9	0.0033	0.26 & meet 268.48
				D021-Chlorobenzene	108-90-7	0.057	6.0 & meet 268.48
				D022-Chloroform	67-66-3	0.046	6.0 & meet 268,48
				D023-o-Cresol	95-48-7	0.11	5.8 & meet 268.48
				D024-m-Cresol	103-39-4	0.77	5.6 & meet 268 48
				D025-p-Cresol	106-44-5	0.77	5.6 & meet 268,48
				D026-Total Cresol	1319-77-3	0.88	11.2 & meet 268.48
				D027-p-Dichlorobenzene	106-46-7	0.090	6.0 & meet 268.48
				D028-1,2-Dichloroethane	107-06-2	0.21	6.0 & meet 268.48
				D029-1,1-Dichloroethylene	75-35-4	0.025	6.0 & meet 268.48
				D030-2,4-Dinitrotoluene	121-14-2	0.32	140.0 & meet 268.48
				D031-Heptachlor	76-44-8	0.0012	0.066 & meet 268.48
				Heptachlor epoxide	1024-57-3	0.016	0.066 & meet 268.48
				D032-Hexachlorobenzene	118-74-1	0.055	10.0 & meet 268.48
				D033-Hexachlorobutadiene	87-68-3	0.055	5.6 & meet 268.48
				D034-Hexachloroethane	67-72-1	0.055	30.0 & meet 268.48
				D035-Methyl ethyl ketone	78-93-3	0.28	36.0 & meet 268.48
		 -		D036-Nitrobenzene	98-95-3	0.068	14,0 & meet 268,48
				D037-Pentachlorophenol	87-86-5	0.089	7.4 & meet 268.48
—				· · · · · · · · · · · · · · · · · · ·	110-86-1	0.014	16.0 & meet 268.48
				D038-Pyridine	127-18-4	0.056	6.0 & meet 268.48
				D039-Tetrachloroethylene	79-01-6	0.054	6.0 & meet 268.48
 ·				D040-Trichloroethylene	79-01-0 95-95-4	0.018	7.4 & meet 268.48
-				D041-2.4.5-Trichlorophenol	93-95-4 88-06-2	0.035	7.4 & meet 268.48
				D042-2,4,6-Trichlorophenol	75-01-4	0.033	80 & meet 268 48
				D043-Vinyl Chlonde	13-01-4	0 21	50 2

I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and impresonment

Company Name.

Authorized Signature. 🔀

Dale: > MARCH 14 1997

MICHIGAN RECOVERY SYSTEMS, GAS Underlying Hazardous Constituents Form

Page	4	`ঠা	4.
	•		

Manifest Doc.#:	Une Item:	MRSI Approval I	Number
	dituents which can reasonably be above, at a concentration above		
Acenaphthylene	1,2-Dibromo-3-Chloropropan		Phenol Phorate
Aceaphthene Acetone	Ethylene dibromide Dibromomethane	Fluoranthene Fluorene	Phthalic acid
Acetoniale	2.4D	Heptachlor	Phthalic achydride
Acetophenone	o-p'-DDD	Heptachlor epoxide	Pronamide
2-Acetylaninofluorene	ρ.ρ'-DDD	Hexachlorobenzene	Pyrene
Acrolein	o.pDDE	Hexachlorobutadiene	Pyridine
Acrylamide	p.p'-DDE	Hexachlorocyclopentadiene	Safrole
Acrylonitale	o.p*-DDT	HxCDDs	Silvex
Aldnn	p.p'-DOT	HxCDFs	2,4,5-T
4-Aminobiphenyl	Dibenz(a,h) anthracene	Hexachloroethane	1,2,4,5-Tetrachlorobenzene
Aniline	Dibenz(a,e)pyrene	Hexachloropropylene	TCDDs
Anthracene	m-Dichlorobenzene	Indeno(1,2,3-c,d) pyrene	TCDFs
Aramite	o-Dichlorobenzene	lodomethane	
alpha-BHC	p-Dichlorobenzene	Isobutyl alcohol	1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane
bela-BHC	Dichlorodifluoromethane	Isodrin	Tetrachloroethylene
delta-BHC	1,1-Dichloroethane	Isosafrole	2,3,4,6-Tetrachlorophenol
gamma-BHC	1,2-Dichloroethane	Kepone	Toluene
Benzene	1,1-Dichloroethylene	Methacrylonitrile	Toxaphene
Benz(a)anthracene	trans-1,2-Dichloroethylene	Methanol	Bromoform
Benzal chloride	2,4-Dichlorophenol	Methapyrilene	1,2,4-Trichlorobenzene
Benzo(b)fluoranthene	2,4-Dichlorophenol	Methoxychlor	1,1,1-Trichloroethane
Benzo(k)fluoranthene	1,2-Dichloropropane	3-Methylcholanthrene	1,1,2-Trichloroethane
Benzo(g,h,i)perylene	cis-1,3-Dichloropropylene	4.4-Methylene bis-	Trichloroethylene
Benzo(a)pyrene	trans-1,3-Dichloropropylene	Methylene chloride	Trichloromonofluoromethane
Bromodichloromethane	Dieldrin	Methyl ethyl ketone	2,4,5-Trichlorophenol
Methyl bromide	Diethyl phthalate	Methyl isobutyl ketone	2,4,6-Trichlorophenol
4-Bromophenyl phenyl ether	2,4-Dimethyl phenol	Methyl methacrylate	1,2,3-Trichloropropane
n-Butyl alcohol	Dimethyl phthalate	Methyl methansulfonate	1,1,2-Trichloro-1,2,2-trifluoroetha
Butyl benzyl phthalate	Di-n-butyl phthalate	Methyl parathion	tris-(2,3-Dibromopropyl)phosphal
2-sec-Butyl-4,6-dinitrophenol	1,4-Dinitrobenzene	Naphthalene	Vinyl chloride
Carbon disulfide	4,6-Dinitro-o-cresol	2-Naphthylamine	Xylenes-mixed isomers
Carbon tetrachloride	2,4-Dinitrophenol	o-Nitroaniline	Antimony
Chlordane	2,4-Dinitrotoluene	p-Nitroaniline	Arsenic
>-Chloroaniline	2,6-Dinitrotoluene	Nitrobenzene	Barium
Chiorobenzene	Di-n-octyl phthalate	5-Nitre-o-toluidine	Cadmium
Chlorobenzilate	p-Dimethylaminoazobenzene	o-Nitrophenol	Chromium (total)
	•	p-Nitrophenol	Cyanides (lotal)
:-Chloro-1,3-butadiene	Di-n-propylnitrosamine	•	Cyanides (Amenable)
hlorodibromomethane	1,4-Dioxane	N-Nitrosodiethylamide	Fluoride
hloroethane	Diphenylamine	N-Nitrosodimethylamine	
«s(2-Chloroethoxy) methane	Diphenylnitrosamine	N-Nitrosodi-n-butylamine	Lead
(s(2-Chloroethyl) ether	1,2-Diphenyl hydrazine	N-Nitrosomethylethylamine	Mercury
hloroform	Disulfoton	N-Nitromorpholine	Nickel Salarium
is(2-Chloroisopropyl) ether	Endosulfan I	N-Nitrosopiperidine	Selenium Silver
-Chloro-m-cresol	Endosulfan II	N-Nitrosopyrrolidine	Sulfide
-Chloroethyl vinyl ether	Endosullan sullate	Parathion	Thallium
Chloromethane	Endrin	Total PCBs Pentachlorobenzene	Vanadium
-Chloronathalene	Endrin aldehyde	Pecoos	· c. ragioni
-Chlorophenol	Ethyl acetate		
-Chloropropylene	Ethyl cyanide	PeCDFs	

Pentachloroethane

Pentachlorophenol

Phenacelin

Phenanthrene

Pentachloronitrobenzene

hrysene

-Cresol

-Cresol

·Cresol

yclohexanone

Ethyl benzene

Ethyl methacrylate

bis(2-Ethylhexyl)phthalate

Ethyl other

Ethylene ovi

MOR 000427



NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL — (Initial Waste Generator Only) —

1 am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME L More	ey Corp.			D. NUMBER LL	pρ ₁ 2 ₁ 5 ₁ 4 ₁	1,5266
EWR STREAM NO.L 21226	MANIFEST	NO. LILTL	[(())	Line No. 🏚 1a	11b11c	☐ 11d
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number	used to identify the wa	ste, as applicable, by c	ompleting blocks and	checking (/) boxes.
1. U.S. EPA Waste Number:	D001					
1a. Former USEPA Waste Numbers: (if previously treated to remove hazardous characteristic)		•				
2.Subcategory:	High TOC Ign. Liq.					
3- Treatability Group: • Wastewater • Non-Wastewater						
4. For F001-F005, D001 (DEACT only), and D012-D043 wastes, list all hazardous constituents.						
5. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix UI HOCs for which specific treatment standards do not apply: (CMBST)		,				
6. This waste is subject to a treatment standard under 40 CFR 268.40: • Waste Requires Treatment • Waste Does Not Require Treatment		8				
7. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (California List prohibitions)						
8. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(c).						
9. This waste is hazardous debris subject to 40 CFR 268.45. (over 50% of waste is debris)						
10. This waste is subject to an exemption from treatment under: • a national capacity variance • a Case-by-case extension • 40CFR258.6	000				000	000
The exemption expires on:						
ADDITIONAL REQUIREMENTS	Check all that apply, a	nd follow instructions.				
☐ APPENDIX IV LAB PACK (Complete Complete ARD, AS INDICATED A OR D012-D043 WASTES	, ,	nplote Certification 3		US DEBRIS (Complete	Table 3)	
FORMER DOO1, DB02 OR D012-D043 WASTES WHICH DO NOT MEET UNIVERSAL TREATMENT STANDARDS (complete Certification 2) This page is a continuation sheet.						

TABLE 1 — UNDER NOT MEETTHE TRI	RLYING HAZARDOUS C EATMENT STANDARDS	ONSTITUENTS AS DE SHOWN IN 40 CFR 2	EFINED IN 40 CFR 268.2(68.48 TABLE UIS:	6) AT THE FOLLOWIN	NG LEVELS WHICH DO
CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION
					
-				-	
					
	FORNIA LIST" PROHIBIT				
_)	•	ALLIUM (liquid) 🔲 OTHER (Specif no specific Subpart D HOC Treatment	•	
TABLE 3 — HAZAR This hazara		ive treatment standards of 40 CFR	t 268.45." The contaminants subject to	o treatment pursuant to 40 CFR :	268.45(b) are:
<u> </u>					
		CERTIFIC	CATIONS		e e e e e e e e e e e e e e e e e e e
and that the lab pack contain IV to part 268 or solid waste	aw that I personally examined and so only the wastes that have not be so not subject to regulation under penalties for submitting a false comment.	een excluded under Appendix r 40 CFR part 261, I am aware	2 FORMER DOO1, DOO2 'I certify under penalty of law requirements of 40 CFR 268.40 is waste contains underlying hazi universal treatment standard; submitting a false certification	v that the waste has been true to remove the hazardous chara tardous constituents that requise. I am aware that there	eated in accordance with the acteristic. This decharacterized uire further treatment to meet are significant penalties for
Signature	Date		Signature	Date	B
"I certify under penalty of la certification that the waste of	complies with the treatment stand information I submitted is true, a	ned and am familiar with the valued and am familiar with the valued and specified in 40 CFR part	waste through analysis and testi t 268 Subpart D and all applicable tware that there are significant pe	prohibitions set forth in 40 C	FR 268.32 or RCRA section
Signature	Date	·			
4 FORM CERTIFICA					
"I hereby certify that all that no omissions or e	l information supplied abo arrors exist."	ve, and attached, is com	nplete and accurate to the b	est of my knowledge a	nd ability to determine
NAME	I MYEK	TIT	TLE HAZ MAT ATE 10-22-96	T MGR	
SIGNATURE X	HOW M	DA	ITE 10-22-46		.
For assistance in co	ompleting this form, co	intact EWR at (203) 7	/55-2283.	MOR 00	J0429

31.1

State Form LPC 62 8/81

II 532-0610

PLEASE TYPE Form Approved. OMB No. 2050-0039, Expires 9-30-96 EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter.) Manries 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by Illinois law. **UNIFORM HAZARDOUS** Document No. 100025415266 Case **WASTE MANIFEST** A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different 256570 FEE PAID IF APPLICABLE MOREY CORP. 259 th (millional) and the country of the country Ø B. Illinois and the second of the 0.030365703 Generator's 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* C. Illinois Transporter's ID
D. (536) 363-1106 5. Transporter 1 Company Name US EPA ID Number Call ENVIRONMENTAL WASTE SERVICES THEOROGOUSE 47 Transporter's Phone 93 7. Transporter 2 Company Name 8. US EPA ID Number E. Illinois Transporter's ID IIII OIS Transporter's Phone G. Illinois 9. Designated Facility Name and Site Address 10. US EPA ID Number Facility's 0030200003 EUR TAC. CIICA H. Facility's Phone Ting S. ppriable, st. Light Cliv. It south 11 1445 (157.5) fB154634~2211 ō 12. Containers 13. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Unit Emergency Waste No. Type No Quantity Wt/Vol G EPA HW Nymber a. FO DIGHT TEAMBORE E FROID, THE S.S. PALISHOLD E हाक दिशालका है, से, समार्थन सम्बद्ध Authorization Number N े मिन्द्रिया है । विभिन्न E esponse **FPA HW Numbe** b. R Authorization Number T EPA HW Number C. 0 $\mathsf{X}\,\mathsf{X}_{\mathsf{L}_{-\mathsf{L}}}$ Authorization Numbe **EPA HW Number** d. /82-1 9960 K. Handling Codes for Wastes Listed Above in Item #14 J. Additional Description for Materials Listed Above and a. FLUX (21220)0001 b. the National Response Center d. 15. Special Handling Instructions and Additional Information Emergency Contact # +6301/964/2/300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Date a Month Day Printed/Typed Name Signature 800/ 1 1 Date 17. Transporter 1 Acknowledgement of Réceipt of Materials TRANSPORTER 424-8802 Day Year Month Signature Printed/Typed Name 14. 3 Date 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature 2 202 / 426-267 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Year Printed/Typed Name Signature

The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous not a continuous) storial elegand of avenue or reclaimed in Illinois; and for all shipments originating in Illinois and destined for that of the do not grief and supply the form. PIMW (Potentially Infectious Medical Waste) requires a different manifest. For this result is infrared to the following the first of the following the first of the following the first of the following the first of the requires copies of the manifest, a photocopy of part I should be used.

INSTRUCTIONS TO GENERATORS (Please type)

- Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (e.g. 00001) by the generator
- 2. Enter total number of pages comprising this Manifest.
- Enter generator's name and mailing address. If iocation of waste generation is different from mailing address, enterlocation to the right of mailing address.
- 4. Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.
- Enter the generator's Illinois EPA ten digit identification
- 5, 6. For the first transporter who will transport the waste, enter the
- C. D. company name, USEPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) Permit number, toto telephone number where an authorized agent of the transported may be reached in the event of an emergency
- 7, 8, If applicable, enter the information requested for the second
- E, F. transporter who will transport the waste.
- 9, 10, For the facility designated to receive the waste, enter company
- G, H. name, address, USEPA ID Number. Blinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- Enter the US DOT Proper Shipping Name, Hazard Class. and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT"
- 12. Enter the number of containers for each waste and the appropriate abbreviations for the type of container.

CM = Metal boxes or roll offs DM = Metal drums

CW - Wooden boxes

OW 5 Wooden drams

CF = Fiberboard or plastic bags DF = Fiberboard or plastic drums

BA = Burlap, cloth, paper or plastic bass.

CY = Cylinders

TT = Tank Trucks

DT = Dunip trucks

(1) = Tanks portable

TC = Tank cars

- Enter the total quantity of each waste.
- 14. Fitter unit of measure from list below:

G = Gallons P = Pounds ! - Tons Y = Caba Yuris Conflict grams f = Liters M = Metric tons N - Cebic meters

Energiae EPA 4 digit Hazardous Weste Number, it waste is a mixture of listed and characteristic wastes, the listed waste must be entered sother numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization)

- number for the last, storing offest manifely are specific for each waste sociam and complemes, and are obtained from the receiving for line) (I rave blank for waste going out of Illimois).
- J. K. If needed, ower additions there is a property and most Justin dons, for the material listed to Item 14.
- 15. If weeded half are present transportation is atment, storage, or disposed a formation of Ball of Lading information. For inconstraint showens generators may early the point of depart to (City and State) for simplicates desiraed for treatare not comprised. In previous terms of the period, the control of the United Stanta in this of the
- 16. The generator must read sign thy hopels, and date the courfecontracted to the mone of the community of subsect about world distributed to the consequence of the season of matric against the process of are the made in additional to the control of the company the in the or had a highlight for

 G^T s $t_1 t_2 + t_3 t_4 + t_4 t_5 + t_5 t_6 + t_5 t_6 + t_6 t_$ WITHIN STORY OF THE CHARLES FOR MICELLAR MAZA COL

INSTRUCTION TO SPANISH ACT accepting the large on behalf of the times of minist anknowledge accopiana and the waste described on the Mainfest by signing and entering the date of recognitional delivers of a sec to facility, retain Copy of and leave a maning copies of a meaning copies. owner/operator

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR 018/08/11 MACILITIES:

- The authorized engineering of the ignoral for all a nate) tacility's owner or operator must note in Item 19 any significant discrepancy (as defined in 25 M). Adm. Code 725 172) between the wasto described on the Manifest and the waste actually received in the facility. Reference the discrepancy by line A, D, C, or D.
- 20. Frint or type name of the person according the waste on hadred the common eye got and teachity. That person midsfork of the load leavy places. an any significant entering the date of receipt Return Copy 3, send Copy 1 to the generates, and send Copy 2 to Hillings FPA Sett Topic of the delinery

Public reporting bundles for the collection of biformade is estimated to average the common for more than the manual test transporters. and or free or includes the fore exercise for the second section of the operation and real of the second of the second relation of the second relation including engagement of the second of the sec Policy Prouch, PM 223, U.S. Televisian and Proposition Agrees, 402 M. Street SW., Washington: Dr. S. Oliver, ed. of the Control of the C Regulatory Affairs, Office of Management and Sudget, Washington, D.C. 20503.



NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL

- (Initial Waste Generator Only) -

I am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME Morey Corp. GEN. EPAI.D. NUMBER L.D. 0 12 15 14 1 1 1 52 6 6 1							
}		NO. 17472					
EWR STREAM NO.L 21226	MANIFEST	NO. LECTA	3 8 7 7 9	Line No. 211a	∐11b ∐11c	☐ 11d	
PROHIBITIONS AND RESTRICTIONS	Complete a column l	or each waste number (used to identify the wa	ste, as applicable, by c	ompleting blocks and	checking (/) boxes.	
1. U.S. EPA Waste Number:	D001						
Former USEPA Waste Numbers: (If previously treated to remove hazardous characteristic)		1					
2. Subcategory:	High TOC Ign. Liq.						
3-Treatability Group: Wastewater Non-Wastewater		_					
4. For F001-F005, D001 (DEACT only), and D012-D043 wastes, list all bazardous constituents.							
•							
5. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply; (CMBST)							
6. This waste is subject to a treatment standard under 40 CFR 268.40: • Waste Requires Treatment • Waste Does Not Require Treatment							
7. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (California List prohibitions)						ļ	
8. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(c).							
9. This waste is hazardous debris subject to 40 CFR 268.45. (over 50% of waste is debris)							
10.This waste is subject to an exemption from treatment under; a national capacity variance a Case-by-case extention 40CFR258.6	000		000	000		000	
The exemption expires on:						}	
ADDITIONAL REQUIREMENTS	Check all that apply, a	and follow instructions.					
APPENDIX IV LAB PACK (Complete C WASTE MEETS A TREATMENT STANI PRESENT OR FORMER DOO1, DOO2 FORMER DOO1, DOO2 OR DO12-DO4	DARD, AS INDICATED A DR D012-D043 WASTE B WASTES	S. (complete Table 1.)	nplete Certification 3		US DEBRIS (Complete	Table 3)	
WHICH DO NOT MEET UNIVERSAL TI	WHICH DO NOT MEET UNIVERSAL TREATMENT STANDARDS (complete Certification 2) This page is a continuation sheet.						

CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION	CONCTITUENT	CONCENTRATION
CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION
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			1	 	
	FORNIA LIST" PROHIBIT	-			
≥ 50 PPM PCBs (liquid)	_	· —	LLIUM (liquid) OTHER (Specif	• • • • • • • • • • • • • • • • • • • •	
≥ 1,000 PPM but< 10,00	00 PPM Appendix III HOCs and prima	rily water. (Only for wastes with r	no specific Subpart D HOC Treatment	t Standard)	
TABLE 3 — HAZAR		t to em		· 42 CTD A	• •
inis nozuri	dous debris is subject to the alternativ	re treatment standards of 40 Crk 2	268.45." The contaminants subject to	o treatment pursuant to 40 CFK Z	68.45(b) are:
				<u> </u>	
l					
	,	CERTIFIC	CATIONS		
1 LAB PACK			2 FORMER D001, D002	or D012-D043 WASTES	
"I certify under penalty of la and that the lab pack contain	aw that I personally examined and is only the wastes that have not be	een excluded under Appendix	'I certify under penalty of law requirements of 40 CFR 268.40	that the waste has been tre to remove the hazardous chara	cteristic. This decharacterized
"I certify under penalty of la and that the lab pack contain IV to part 268 or solid waste	ns only the wastes that have not be es not subject to regulation under penalties for submitting a false	een excluded under Appendix r 40 CFR part 261. I am aware	'I certify under penalty of law	that the waste has been tre to remove the hazardous chara ardous constituents that requ s. I am aware that there a	cteristic. This decharacterized fre further treatment to meet re significant penalties for
"I certify under penalty of la and that the lab pack contain IV to part 268 or solid waste that there are significant p possibility of fine or impris-	ns only the wastes that have not be es not subject to regulation under penalties for submitting a false conment."	een excluded under Appendix r 40 CFR part 261. I am aware	"I certify under penalty of law requirements of 40 CFR 268.40" waste contains underlying haz universal treatment standard	that the waste has been tre to remove the hazardous chara ardous constituents that requ s. I am aware that there a n, including the possibility of	cteristic. This decharacterized fre further treatment to meet re significant penalties for
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State Form LPC 62 8/81

IL532-0610

PLEASE TYPE Form Approved. OMB No. 2050-0039, Expires 9-30-94 (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. 1. Generator's US EPA ID No. **UNIFORM HAZARDOUS** Document No. JUD903415266 WASTE MANIFEST 3. Generator's Name and Mailing Address Location If Different BIREY CORE. Control of the Paris of Control of the Control of t أؤوا بالوروال فعالي 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* US EPA ID Number 5. Transporter 1 Company Name 子们只连碰撞地往往。 经信托 25、"我们的性,却有了 US EPA ID Number 7. Transporter 2 Company Name 8. US EPA ID Number 9. Designated Facility Name and Site Address 10. THE THE PROPERTY OF 19 060 Car. 250 fine office it ettate. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13 Total Type Quantity The complete the engine of the end of the en 28 14946 (1.2) E N E b. R T Ċ. 0 R 217 / 782-7860 and the National Response Center at d. J. Additional Description for Materials Listed Above 15. Special Handling Instructions and Additional Information Empresoner tracking to the constraint of the 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Date Printed/Typed Name Month Day Year Signature 800 / 424-8802 or Date 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day Printed/Typed Name Signature ANSPORTER 18. Transporter 2 Acknowledgement of Receipt of Materials Date Month Day Year Printed/Typed Name Signature 1111 202 / 426-26 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Printed/Typed Name Month Day Year Signature

The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and nonhazardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PIMW (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part I should be used.

INSTRUCTIONS TO GENERATORS (Please type)

- 1. Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (eg. 00001) by the generator.
- 2. Enter total number of pages comprising this Manifest.
- 3. Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- 4. Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.
- B. Enter the generator's Illinois EPA ten digit identification number.
- 5,6,C,D. For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- 7,8,E,F. If applicable, enter the information requested for the second transporter who will transport the waste.
- 9,10,G,H. For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- 11. Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT."
- 12. Enter the number of containers for each waste and the appropriate abbreviations for the type of container:

DM = Metal drums CM =Metal boxes or roll-offs DW -Weeden drums CW = Wooden boxes DF = CF = Fiberboard or plastic drums Fiberhoard or plastic bags CY -BA = Burlap, cloth, paper or plastic bags Cylinders DT = Dump trucks 7T -Tank trucks Tanks recitable TC = Tank cars TP *

- 13. Enter the total quantity (gallons or cubic yards) of each waste
- 14. Enter G if quantity is in gallons or Y if quantity is in cubic yerds. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.
- I. Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).
- J.K. If needed, enter additional description or information/instructions for the material listed in item 11.
- 15. If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment storage, or disposal outside the jurisdiction of the United States in this space.
- 16. The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the ord "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another used in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: 17,18. The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt.

UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any aigmificant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the state actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20. Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

Return copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U. S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.



NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL — (Initial Waste Generator Only) —

I am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME Morey Corp. GEN. EPA I.D. NUMBER I L D 0 12 15 14 1 1 52 6 6 1							
EWR STREAM NO.1 21226	MANIFEST	NO. [][6]]	9648	Line No. 🛭 11a		□ 11d	
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number (used to identify the wa	ste, as applicable, by c	ompleting blocks and	checking (🗸) boxes.	
1. U.S. EPA Waste Number:	D001						
1a. Former USEPA Waste Numbers: (Il previously treated to remove bazardous characteristic)		•					
2.Subcategory:	High TOC Ign. Liq.						
3-Treatability Group: • Wastewater • Non-Wastewater			_				
4. For F001-F005, D001 (DEACT only), and D012-D043 wastes, list all bazardous constituents.							
•							
5. This waste is subject to a treatment standard under 40 CFR 288.42(a) for wastes containing 21,800 ppm Appendix III HOCs for which specific treatment standards do not apply: (CMBST)							
6. This waste is subject to a treatment standard under 40 CFR 268.40: • Waste Requires Treatment • Waste Does Not Require Treatment							
7. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (California List prohibitions)							
8. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(c).							
9. This waste is hazardous debris subject to 40 CFR 258.45. (over 50% of waste is debris)							
1 D.This waste is subject to an exemption from treatment under: a national capacity variance a Case-by-case extension 40CFR268.6			000		000		
The exemption expires on:	j						
ADDITIONAL REQUIREMENTS	Check all that apply, a	nd follow instructions.					
☐ APPENDIX IV LAB PACK (Complete C☐ WASTE MEETS A TREATMENT STAND☐ PRESENT OR FORMER DOO1, DOO2 (C☐ FORMER DOO1, DOO2 OR DO12-DO43	DARD, AS INDICATED A DR D012-D043 WASTES B WASTES	S. (complete Table 1.)	plete Certification 3		US DEBRIS (Complete	Table 3)	
WHICH DO NOT MEET UNIVERSAL TR	CAIMENI STANUARD	s (complete Certificati	on (4)		This page is a contin	nuation sheet.	

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<u>ABLE 2</u> — "CALIF] ≥ 50 PPM PCBs (liquid)	FORNIA LIST" PROHIBIT)		LLIUM (liquid) 🔲 OTHER (Specif	ý)	
] ≥ 1,000 PPM but< 10,0	00 PPM Appendix III HOCs and prima	rily water. (Only for wastes with	no specific Subpart D HOC Treatment	Standard)	
<u>ABLE 3</u> — HAZAF This hazar	RDOUS DEBRIS rdous debris is subject to the alternati	ve treatment standards of 40 CFR	268.45." The contaminants subject to	treatment pursuant to 40 CFR 2	?68.45(b) are:
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		CERTIFIC	CATIONS		
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FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information required by Illinois law.	No. 2050-0039, Expires in the shaded areas Federal law, but is req	s is no juired by
3. Generator's Name and Mailing Address	Location If Different		A Itinois Ma		ment Number	o a l
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The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and nonhazardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PIMW (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part I should be used.

INSTRUCTIONS TO GENERATORS (Please type)

- 1. Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (eg. 00001) by the generator.
- 2. Enter total number of pages comprising this Manifest.
- Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- 4. Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.
- B. Enter the generator's Illinois EPA ten digit identification number.
- 5,6,C,D. For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- 7,8,E,F. If applicable, enter the information requested for the second transporter who will transport the waste.
- 9.10,G,H. For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- 11. Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT."
- 12. Enter the number of containers for each waste and the appropriate abbreviations for the type of container:

CM = Metal boxes or roll-offs DM -Metal drums DW = CW = Wooden boxes Wooden drums CF = Fiberboard or plastic bags DF = Fiberboard or plastic drums CY =BA = Burlap, cloth, paper or plastic bags Cylinders DT -14L = Tank trucks Dump trucks TC -TP = Tanks portable Tank cars

- 13. Enter the total quantity (gallons or cubic yards) of each waste.
- 14. Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.
- I. Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).
- J.K. If needed, enter additional description or information/instructions for the material listed in item 11.
- 15. Moveded, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment storage, or disposal outside the jurisdiction of the United States in this space.
- 16. The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: 17,18. The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt.

UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- 19 The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 Ill. Adm. Code 725 172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20. Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must sukmowledge acceptance of the waste by signing and entering the date of receipt.

Ketain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for transporters, and 10 minutes for transporters, and 10 minutes for transporters, and 10 minutes for transporters, and 10 minutes for transporters, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U. S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.



NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL — (Initial Waste Generator Only) —

I am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME Morey Corp. J GEN. EPAI.D. NUMBER L D D 2 5 4 1 52 6 6						
EWR STREAM NO.L 21226		NO. LIL67		D. NUMBER 1————————————————————————————————————		
PROHIBITIONS AND RESTRICTIONS 1.U.S. EPA Waste Number:	Complete a column to	or each waste number i	used to identify the wa	ste, as applicable, by c	ompleting blocks and a	hecking (/) boxes.
<u> </u>	D001				ļ	
1a. Former USEPA Waste Numbers: (If previously treated to remove hazardous characteristic)		•				
2. Subcategory:	High TOC Ign. Liq.					
3-Treatability Group: • Wastewater • Non-Wastewater						
4. For F001-F005, D001 (DEACT only), and D012-D043 wastes, list all hazardous constituents.	•					-
	-					
5. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing >1,000 ppm Appendix it! HOCs for which specific treatment standards do not apply: (CMBST)						
6. This waste is subject to a treatment standard under 40 CFR 268.40: • Waste Requires Treatment • Waste Does Not Require Treatment		8				
7. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(4): (California List prohibitions)					·	
8. This waste is a Lab Pack subject to the alternative treatment standard under 48 CFR 268.42(c).						
9. This waste is hazardous debris subject to 40 CFR 268.45. (over 50% of waste is debris)						
10.This waste is subject to an exemption from treatment under: a national capacity variance a Case-by-case extension 40CFR258.5			000	000	000	000
The exemption expires on:						
ADDITIONAL REQUIREMENTS	Check all that apply, a	nd follow instructions.				
APPENDIX IV LAB PACK (Complete C WASTE MEETS A TREATMENT STAND PRESENT OR FORMER DOOL, DOOZ (IARD, AS INDICATED A DR D012-D043 WASTE		plete Certification 3		US DEBRIS (Complete	Table 3)
FORMER DOOT, DOOZ OR DOT2-DO43 WASTES WHICH DO NOT MEET UNIVERSAL TREATMENT STANDARDS (complete Certification 2) This					This page is a conti	nuation sheet.

CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION
				 	
		·			
·					
·					
					
≥ 50 PPM PCBs (liquid)		iquid)	LLIUM (liquid) 🔲 OTHER (Specif		
≥ 1,000 PPM but < 10,00	00 PPM Appendix III HOCs and primari	ily water. (Only for wastes with r	no specific Subpart D HOC Treatment	: Standard)	
TABLE 3 — HAZARI This hazard	DOUS DEBRIS dous debris is subject to the alternative	e treatment standards of 40 CFR	268.45." The contaminants subject to	o treatment pursuant to 40 CFR 2	:68.45(b) are:
<u> </u>					
L					
		CERTIFIC	CATIONS		
and that the lab pack contains IV to part 268 or solid waste	w that I personally examined and is only the wastes that have not been so not subject to regulation under 4 penalties for submitting a false conment.	am familiar with the waste en excluded under Appendix 40 CFR part 261, I am aware	I certify under penalty of law requirements of 40 CFR 268.401 waste contains underlying haze universal treatment standards submitting a false certification	withat the waste has been treatoremove the hazardous characteristics that requires that there as	eated in accordance with the icteristic. This decharacterized uire further treatment to meet are significant penalties for
Signature	Date _	·	Signature	Date	
"I certify under penalty of la certification that the waste of	FREATMENT STANDARD(S) aw that I personally have examine complies with the treatment stands information I submitted is true, accomment."	led and am familiar with the wards specified in 40 CFR part 2	268 Subpart D and all applicable	prohibitions set forth in 40 Ci	FR 268.32 or RCRA section
hozzanina or mic or mibro					
	Date				
Signature	ATION I information supplied abov		plete and accurate to the b	est of my knowledge ar	nd ability to determine
Signature 4 FORM CERTIFICA 1 hereby certify that all that no omissions or e	ATION I information supplied aboverrors exist.* HIL MUER	ve, and attached, is com	rle	est of my knowledge ar	nd ability to determine
FORM CERTIFICATION of the state	ATION I information supplied aboverrors exist.* HIL MUER	ve, and attached, is com	rle	est of my knowledge ar	nd ability to determine

E CIATE OF IEEHTOIS

State Form LPC 62 8/81

LPC 62 8/81 IL532-0610

LEASE TYPE EPA Form 8700-22 (Rev. 6-89) (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039, Expires 9-30-96 Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. 1. Generator's US EPA ID No. **UNIFORM HAZARDOUS** 2. Page 1 Document No JLDM2541526E WASTE MANIFEST A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different FEE PAID 256657 MUREY CORP. JF APPLICABLE acts the Other College administration, it is but B. Illinois ात क्षी एक वर्ष हो होते Generator's 04-10305029 *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* US EPA ID Number C. Illinois Transporter's ID 5. Transporter 1 Company Name \tilde{r}^{7} $ho c_{1}$ D. 16307365-1308 ENVIRORMENTAL MOSTE SERVICES **LERODONO (PAZ** Transporter's Phone 7. Transporter 2 Company Name US EPA ID Number E. Illinois Transporter's ID 8. Transporter's Phone G. Illinois US EPA ID Number 9. Designated Facility Name and Site Address Š 10. Facility's 65 300 AND 3 7:20 दुङ्क है, साराध्यक्षकः हो, H. Facility's Phone 日 608 (15) 251 CORL Ella, R. 60-56 B15y634 8611 ς 12. Containers 13. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Unit Total Waste No. No. Type Quantity Wt/Vo EPA HW Number 8. 的 排稿件 计静脉的机 计间径 几位为,这位的特征 XIDDE THE ATMITTED HEROCARDON Authorization Number a thankers to its opinion F b. EPA HW Number R **Authorization Number** T ğ EPA HW Number 0 C. $\mathsf{X}\,\mathsf{X}_{\mathsf{L}}$ ŏ R Authorization Numb 1117 EPA HW Number d. ò J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 <u>ē</u> FILUX (21/26)DØØ1 b. Ē ۲. ivational mesponse Center 15. Special Handling Instructions and Additional Information Feer Ben v Fundant # (650) (164-2) (60 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date ä Month Day Printed/Typed Name : . . Signature (AUD / 424-88UZ Date 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature 1. A1 122 Date 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Printed/Typed Name Year Signature ⊆ 20-024 1202 Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Printed/Typed Name Signature

This Agency is authorized to require, pursuent to Minois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Failaffication of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and conferences) storad, disposed of the and or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that I was gried and supply the form PIMW (Potentially Infectious Medical Waste) requires a differe a manifest. For ships one of the control of the contr requires copies of the manifest, a photocopy of part I should be used.

INSTRUCTIONS TO GENERATORS (Please type)

- Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (e.g. 00001) by the generator.
- Enter total number of pages comprising this Manifest.
- Enter generator's name and mailing address. If location of waste generation is different from mailing address, enterlocation to the right of mailing address.
- Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.
- B. Enter the generator's Illinois EPA ten digit identification
- 5, 6. For the first transporter who will transport the waste, enter the
- C, D. company name. USEPA ID number, Phronis EPA four digit Special Waste Hauling (SWH) Permyt ausgber, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- 7, 8, If applicable, enter the information requested for the second
- E, F. transporter who will transport the waste.
- 9, 10, For the facility designated to receive the maste, enter company
- G, H, name, address, USEPA ID Number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT".
- Enter the number of containers for each waste and the appropriate abbreviations for the type of container:

CM = Metal boxes or roll offs <math>DM = Metal drums

CW = Wooden boxes

DW - Wooden druins

CF = Fiberboard or plastic bags | DF = Fiberboard or plastic drums

BA = Burlap, cloth, poper or plastic bags,

CY = Cylinders

TT = Tank Trucks

DT = Dump tasels.

TP = Tanks pertable

TC = Tank cars

Enter the total quantity of each waste.

13. Enter unit of measure from list below:

> G = Gailous P = Founds T = Tons A self-inte Yards f = Liters Elizabelografiis M = Metric tons is a Cubic meters

Enter the EPA 4 digit Hazani ias Wasie Number, it waste is a mixture of listed and characteristic wastes, the listed waste must be entered a other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization)

- number for the sorte scream classe numbers are specific for each waste scream and companies, and are obtained from the receiving facility) (leave blank for waste going our of Illinois).
- J. K. If needed, enter adilition if deviation or international instructions for the material listed in Item 11.
- If needed indicate special transport tion, treatment, storage, or disposal information, or Bill or Lading information. For international shipments generators must each the point of departure (City and State) for shipments destined for treatpart storage, or dispositions of the Chief States in this space.
- The general a must read, sign thy headly and date the cerifficamposis meet it all ode other in to light as is used the and another income to the income rate Supplied the state of the state another paste in advances one of a consensity eme, do appropriate oldring at one

GENERAL CONTRACTOR OF THE CONTRACTORS WITHIN STONE OF SHEETINGS IN MARKET HAZAMI GACT

INSTRUCTIONS OF ERVISED HILLS IN TO The person accepting the costs on helight of the transporter must anknowledge acceptance of the vasic resembed on the Modifest by signing and entering the dute of recognit Contractors of the and to facility. retain Copy 4 and leave a meating capie, water he availty owner/operator

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Public to saving burden for this collection of information is estimated to everage 37 against the contraction of a home year transporters one the contract of $\pi_{AB} = \pi_{AB} + i H_{CA} T P_{CB}$ metades to be a contract to the property of th and services of the services of the services of the Sarden estimate metadlar services of the s Policy Branch, PM(2) and Alexander of the Service Apenix, BHAI Street SW., Virgin Street Switzer 2 Coll Information and Regulatory regulars. Office of Management and Budget. Washington. D.C. 20503.

State Form LPC 62 8/81

P.O. BOX 19276 PLEASE TYPE

IL532-0610

<u>PL</u>	EASE TYPE (Form designed for use on elite (1)	2-pitch) typewriter.)	EPA Form 8700-22	(Rev. 6-89)		Form Approved, OME	No. 2050-00	39, Expires 9-30-94
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EP ILD 9 2541526		Manifest Occument No. 79519	i i	age 1 Information required I	ov Federal lav	naded areas is not w, but is required by
	3. Generator's Name and Mailing Address	Location If			A. Illir	nois Manifest Do	ument Nu	FEE PAID
	MOREY CORP. 2659 WISCONSIN AVENUE, DOWN 4. *24 HOUR EMERGENCY AND SPILL ASSIS*	•	60515 (708) 964-	2300	B. Illir Ge	OTISS herators 7	13	0305029
	5. Transporter 1 Company Name	6.	US EPA ID Numb	er	C. Illin	ols Transporter	JD (S	
1	ENVIRONMENTAL WASTE SERVICE	s	ILR0000	77047		(0B) 365-11		
1	7. Transporter 2 Company Name 8. US EPA ID Number Extends from the company Name 8.							
	Designated Facility Name and Site Address	10.	US EPA ID Numb	er	G. Illin		Transp	porter's Phone
	EWR INC.				- K 1D-1	lity's Phone	263	0200003
1	2390 S. BROADWAY ST. COAL CITY, IL 60416		ILD0871		8))	15)634-22		
	11. US DOT Description (Including Proper Shipp	ing Name, Hazard Clas	ss, and ID Number)	12. Conta	. [13. Total	Unit [Waste No.
Ġ	<u></u>			No.	Туре	Quantity	Wt/Vol	EPA HW Number
E	RQ WASTE FLAMMABLE LIQUID AND AROMATIC HYDROCARBONS	N.O.S. (ALIF	PHATIC	0.01	рм	00055	X.	EPA HW Number XI 10/20/1 1 shortz fildi Number
E R	b. 3 UN1993 PG II (D001)			 				
A	•			1				A THY Number
T O	C.			<u> </u>			J	EPA HW Number
R							<u> X</u> ^	Athorization Number
	d.			 	<u> </u>			EPA HW Number :
						!		X thorization Number
	J.S.Addelonel Description for Materials Listed Abo	ve takan kebasan da sa	name delenator de contra	enka kuklova.	K. Han	dling Codes for	Wastes Lis	[A 121 1 105 27 1
	city and in the same				in it	Gallons	- H	bic Yards
			P. L. Branch			e da Sir		200
	15. Special Handling Instructions and Additional Emergency Contact # (708)							
	 GENERATOR'S CERTIFICATION: I hereby deci- proper shipping name and are classified, packed according to applicable international and nations 	f, marked, and labeled, a il government regulations	and are in all respects in s.	proper condit	ion for tr	ansport by highw	-	
	If I am a large quantity generator, I certify that I be economically practicable and that I have sele- and future threat to human health and the enviro select the best waste management method that	cted the practicable methonous, or a small representation of the contract of t	od of treatment, storage, ill quantity generator, I ha	or disposal ci	urrently a	available to me wh	ich minimiz	es the present
V	Printed Typed Name HIL MyER		Signature	M			Mo O	
Ţ	17. Transporter 1 Acknowledgement of Receipt of	f Materials				4		Date
TRAHSP	Printed/Typed Name LHOMAS LACK	EI	Signature	omal	2	ocker	м <u>о</u> О;	nth Day Year 328
ORTER	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	f Materials	Signature				Mo.	Date nth Day Year
FAC-L	19. Discrepancy Indication Space							
Ŧ	20. Facility Owner or Operator: Certification of re	ceipt of hazardous mat	erials covered by this r	nanifest exc	ept as n	oted in item 19.		Date
Ÿ	Printed/Typed Name R. Mc K. One V		Signature M	Kin	w	1	Mor	oth Day Year
ᆛ	its Agency is authorized to require, pursuent to Illinois Revi	sed Statute, 1989 Chanter	111 1/2 Section 1004 and	1021, that this	intermetic	be submitted to	the Agency.	Failure to provide

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- Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.

B. Enter the generator's Illinois EPA ten digit identification number.

5,6,C,D. For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.

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- 9,10,G,H. For the facility designated to receive the wests, order company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- 11. Enter the US DOT Proper Shipping Name, Harard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrose inot instantable by DOT."

12. Enter the number of containers for each waste and the appropriate abbreviations for the type of container:

Metai boxes or roll-offs UN a Metal drums CM = DIIWooden drams CW = Wooden boxes 1575 6 CF = Fiberboard or plastic bags Fiberboard or plastic drums BA = Burlap, cloth, paper or plastic toes Cylinders 71 = Dump trucks Tank tracks DT = (3° -Tanke portable TC = Pank cars

13. Enter the total quantity (gallons or cubic yards) of each works

14. Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.

I. Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered - other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).

J.K. If needed, enter additional description or information/instructions for the material listed in item 11.

15. If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for the eatment storage, or disposal outside the jurisdiction of the United States in this space.

16. The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: 17.18. The person accepting the waste on behalf of the transporter must ecknowledge acceptance of the waste described on the Manifest by eigning and entering the date of receipt.

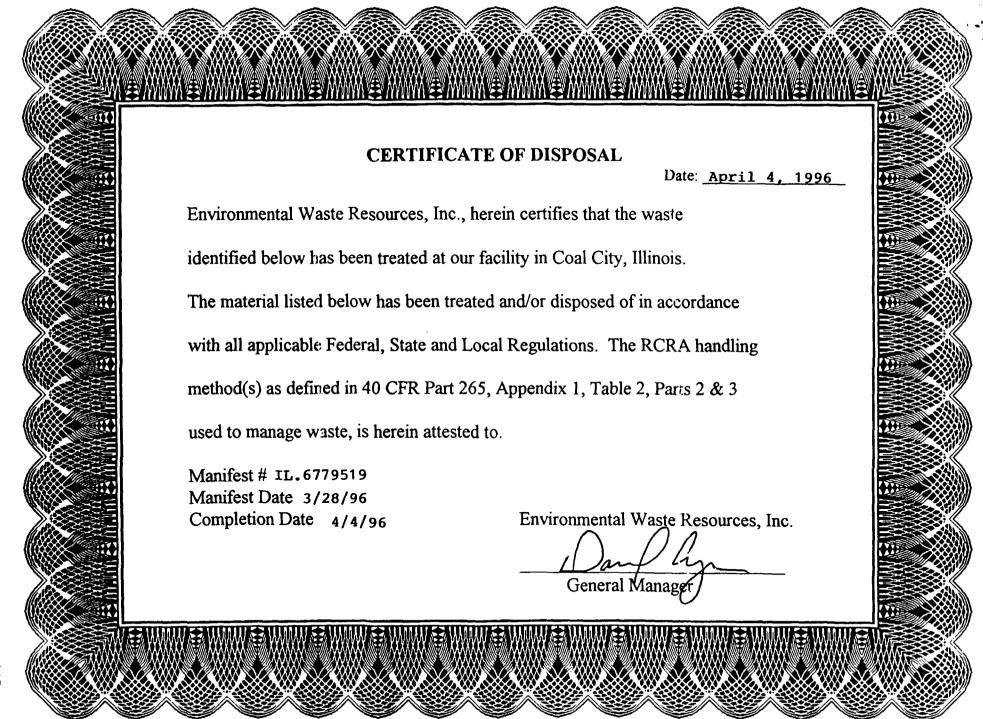
UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO GWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- 19 'The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 III. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20 Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

Recause copy $S_{\rm esc}$ all copy T to the generator, and send copy 2 to Winois EPA (within 30 days of the delivery).

Public recording burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503



State Form LPC 62 8/81

IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No 2050-0039, Expires 9-30-96 1. Generator's US EPA ID No. Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM HAZARDOUS 956657° ILD025415266 1 WASTE MANIFEST Location If Different A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address FEE PAID MOREY CORP. 56657 IF APPLICABLE 2659 WISCONSIN AVENUE, DOWNERS GROVE, IL 60515 B. Illinois (630) 964-2300 0430305029 Generator's 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 5. Transporter 1 Company Name
ENVIRONMENTAL WASTE SERVICES C. Illinois Transporter's ID 2702 D. (630) 365-1100 Transporter's Phone US EPA ID Number ILR000007047 US EPA ID Number 7. Transporter 2 Company Name 8. E. Illinois Transporter's ID Transporter's Phone 10 US EPA ID Number G. Illinois 9. Designated Facility Name and Site Address Facility's 0630200003 EWR INC. 2390 S. BROADWAY ST. H. Facility's Phone COAL CITY, IL 60416 ILD087157251 (815) 634-2211 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Waste No. Туре **Wt∕**Vo Quantity G EPA HW Number RQ WASTE FLAMMABLE LIQUID, AND AROMATIC HYDROCARBONS) N.O.S. (ALIPHATIC X1 DOGI Ε G 3 UN1993 PG II (D001) 000129 E EPA HW Numbe b. R $\langle X_{L}$ C. **EPA HW Number** 0 $\mathsf{X}\,\mathsf{X}_{\mathsf{L}_{\mathsf{L}}}$ <u>0</u> R Authorization Number EPA HW Number d $\mathsf{X}\,\mathsf{X}_{\mathsf{L}\!-\!\mathsf{L}}$ Authorization Number J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 FLUX (21226) D001 b. RECEIVED c. d. INGLICITAL 00T-8-1-1996 15. Special Handling Instructions and Additional Information Emergency Contact # (630)964-2300 THE MURRY CURP. ae Indeau 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. כפוופו If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator. I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Date Dav Printed/Typed Name Signature 17. Transporter 1 Acknowledgement of Receipt of Materials Date Day Printed/Types, Nam **lonth** Signature ONU Date 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature E 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials overed by this manifest except as noted in item 19. Date Month Day Year Printed/Typed Name Sidnature URBAL require, pursuant to Illinois Revised Statute, 1989, Chapter 19 a civil penulty against the owner or operator not to exceed nent up to 5 years. This form has been approved by the Forms Manage that this information be submitted to the Age Falsification of this information may result in 1004 fine up to \$50,000



The Himsis Priform Margiest with the set for all shipments of special waste chazardous and the extending stand, disposed of treated in reclaimed in Illinois; and for all shipments originating in Illinois and destined for these that do not print and simply the form, PIMW (Potentially Experience Marked Woste) requires a different manifest. For the extending the manifest, a photocons in part I should be used.

INSTRUCTIONS TO GENERATORS (Plane 1990)

- Enter generator's USEPA twelve dignostentification number and the unique five digit document most or assigned to this Manifest (e.g. 00001) by the generator
- 2. Enter total number of pages comprising this Manifest.
- Enter generator's name and mailing address. It location of waste generation is different from method address, onto location to the right of mailing address.
- Enter telephone number where an authorized agent of the generator, who have knowed as a consequence of the in the event of an appearance.
- B. Sate: the general was a state of the value of the transfer number
- 5. 6. For the first transporter who will respond the appear appear the
- 5. D. company states that the property of the operation of special Waste Demand switch and a control of the company of the number where an authorized position are a mapping and of the reached in the control of the
- 7, 8, If applicable and the second of the se
- E. F. transporter who will transport to be seen
- 9. 10. For the facility was a second of the
- G. H. name, address high him energy and district his him facility code number, and adoptione number where an authorized agent of the receiving facility movement of ched.
- ed. Enter the US DOT People Slamping brank. Hazard Class and ID number (NAACS numbers) for each waste as identified in 49 CFR 171 through 677. For wastes not regulated as Hazardous Materials by DCT, zoon a description of the waste and the generic soon of the control by DCT more hazardous by DCT.
- 17 times the months of the rest of the military appropriate abbreviations for the Gaster contention.
 - CM a Metal boxes or nell offs DM Metal during
 - and the property of the second property of th
 - CF = Fiberboard or plastic bags. DF = Fiberboard or plastic Jouins BA = Birran, cloth there is a short of the sense.
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 - LT = Dump track and greening the state
 - TC = Tank cars
- 13.6 . Enter the total quantity of call to over
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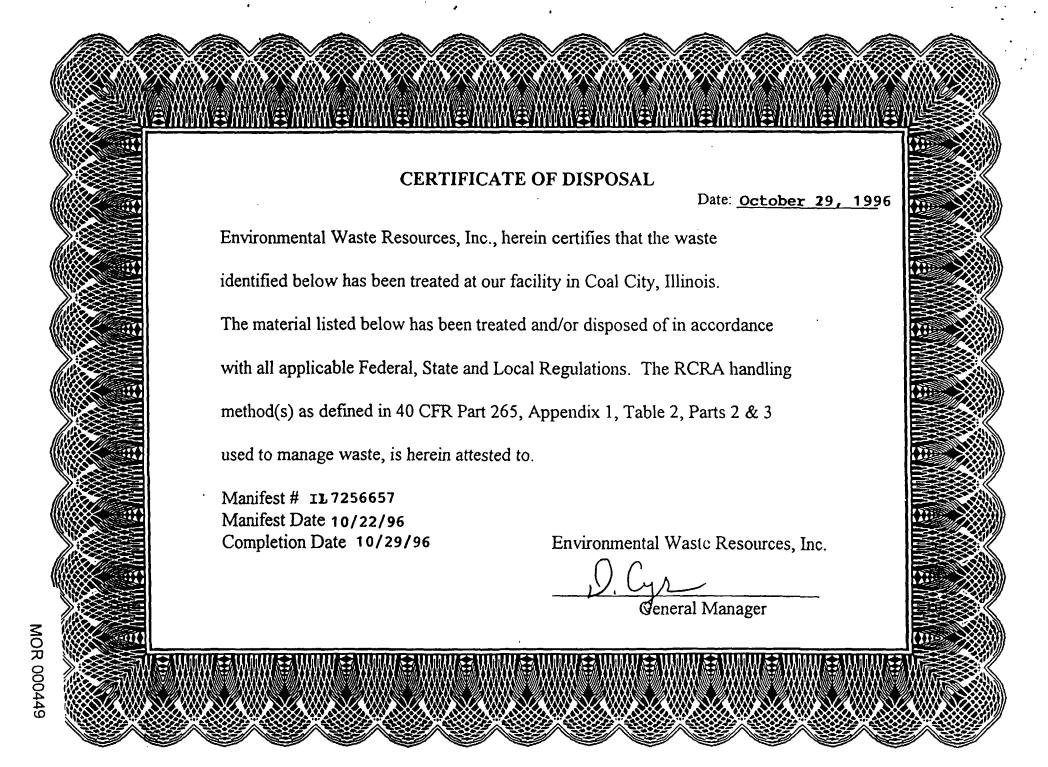
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Example 1. The FO FRANSIPREFT to person a separate to the or behalf of the transposed must acknowledge acception of a new waste described on the Manife to by signing and wasten on the ot receipt Upon delivery of wasts to tacility, can be to see a min leave remaining copies of the or parallely authorities of the

SECHOTIONS TO OWNERS AND OPERATORS OF STATE OF A STORAGE, OR DISCOSSION AS THERES

- and the first operator must note in Hem. 19 any sign fresh discrepancy (as defined in 35 ff. (Adm. Code 725 172) between the waste described on the Manifest and the waste actually received at the facility. Reference the ff or epancy by line A. B. C. of D.
- One of type name of the person accepting the waste on dia three or operations of diagnostics. Plat person has whedge ecception of diagnostics and make minima the date of receipt.
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State Form LPC 62 8/81

IL532-0610 PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved OMB No 2050-0039, Expires 9-30-96 Generator's US EPA ID No. ILD025415266 Manifest 2. Page Information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM HAZARDOUS BB5700 WASTE MANIFEST A. Illinois Manifest Document Number 3. Generator's Name and Mailing Address Location If Different FEE PAID 256570 FEE PAID IF APPLICABLE MOREY CORP 2659 WISCONSIN AVENUE, DOWNERS GROVE, IL 60515 B. Illinois 0430305029 (630) 964-2300 Generator's 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* חו US EPA ID Number C. Illinois Transporter's ID D. (630) 363-1100 Transporter 1 Company Name ENVIRONMENTAL WASTE SERVICES ILR000007047 Transporter's Phone US EPA ID Number 7. Transporter 2 Company Name 8 E. Illinois Transporter's ID Transporter's Phone 9. Designated Facility Name and Site Address 10. US EPA ID Number G Illinois 0630200003 Facility's EWR INC. BROADWAY ST. 2390 S. BROADWAY ST. COAL CITY, IL 60416 H. Facility's Phone ILD087157251 (815) 634-2211 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13 Total Unit Waste No. Type Quantity Wt/Vo G EPA HOOUTPON RQ WASTE FLAMMABLE LIQUID, AND AROMATIC HYDROCARBONS) N.O.S. (ALIPHATIC E G 601 DM Authoriz Bigg 1729 3 UN1993 PG II (D001) E **FPA HW Numbe** R **Authorization Number** T EPA HW Numbe 0 C. $\mathsf{X}\,\mathsf{X}_1$ **Authorization Number EPA HW Number** d. XX_1 J. Additional Description for Materials Listed Above K. Handling Codes for Wastes Listed Above In Item #14 FLUX (21226) D001 b. d. 15. Special Handling Instructions and Additional Information Emergency Contact # (630)964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator. I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name Signature 17. Transporter 1 Acknowledgement of Receipt of Materials Date TRANSPORTER Printed/Typed Name Signature omal Date 18. Transporter 2 Acknowledgement of Receipt of Materials Day Year Month Printed/Typed Name Signature 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Month Day Year Printed/Typed Name 0927

pursuant to Minois Revised Statute, 1989, Chapter 11 penalty against the owner or operator not to exceed 5 years. This form has been approved by the Forms Manage

nation be submitted to the Agency. Failure this information may result in a fine up

The Illinois Uniform Manifest masses as in for all slupments of special waste (nazardous and converse dous) stored, disposed of, treated or reclaimed in Illinois; and for all shipmente originating in Illinois and destined for effect that do not print and sumply the form, PIMW (Potentially Infectious Madical Wasterman 1999 different manifest Upon a second services of the conference of second services state requires copies of the manifest, a photocopy of part I should be used.

INSTRUCTIONS TO GENERATORS (Pt. 10) April

- Enter generator's USEPA twelve digo adentification number and the unique five digit document number assigned to this Manifest (e.g. 00001) by the generator
- Enter total number of pages comprising this Manifest.
- Enter generator's name and mailing archess. If location of 3. waste generation is different from medium address enterlocation to the right of mailing address.
- Enter telephone number where an authorized agent of the generator, who has knowledge and the second be reached. in the event of an emergency
- B Enter the general most and make its object above to move aumber.
- 5, 6. For the first transporter oflip with transport the value some the
- C. D. company name it Service to and the little of the leading Special Waste Hards a state of the control of the grant of phone number where an authorized some or its acceptance on it bereached in the eve
- 7, 8, If applicable, core in a constant of the second of
- E, F. transporter who controlls pour one sector 9, 10, For the facility is a second of the second
- G. H. name, address, high in the second of the control of the second of facility code number, and telephone number where an nutber ized agent of the receiving facility may be reached.
- Enter the US DOT Proper Shippage None, Hazard Class, and ID number (NAA) Nontimographic such whate as identified in 49 CFR 171 mrough 477, for wastes not regulated as Hazardous Materials by DCs. Times a description of the waste and the general region of the given later the pleasa-"not hazardous by DGT"
- Enter the number of containing a containing of the appropriate abbiggrations for in logic of container. PM - Metal besses or relikoff and 1944 Metal draws.
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 - CF = Fiberboard or plantic bags | DF > Fiberboard or plantic druins BA = Burlan (foth papers on obstaclines)
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 - DT = Dump mode. 124 3 4000
 - TC = Tank cas
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- under the fit of the control of the Charles of the Control of the Contro in the listed waste. must be onto all the games of which in Section 4 For nonhazardous questal was especies. Lass A. Emer the Illinois EPA sex digst waste stream permit (authorization).

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The Control of the PRANSPORT CONTROL of the State of the couper of control on behalf at the transfer of mast acknowledge a cpe so of the waste described on the Manifest by signing and maxima to due of accept I pour delivery or caste to facility. to the transfer and feature removing a september of the fact two continue perimet

13533 TOTIONS TO OWNERS AND OPERATORS OF CONTRACTOR VOLUME BY SPORTS FAR RATHERS as at the flaty a lowner or operator must note in from 19 any sign rican discrepancy (as defined in 35 III. Adm. Code) 125 (72) between the waste described on the Mainlest and

- the waste actually received at the facility. Reference the the repared by line A, B, C, or D. their or type name of the person accepting the waste on
- 18 for the concern pears of facility that person the concern of the concern and meaning the date of receipt Living Copy 3, send Copy I in the enterestion, and send Copy $\lim_{N\to\infty} \frac{d^2 p_{N}}{dp_{N}} \log f(\mathbf{P}(\mathbf{k})) \leq dp_{N} = \lim_{N\to\infty} \frac{d^2 p_{N}}{dp_{N}} \log p_{N} = \frac{d^2 p_{N}}{dp_{N}} \log p_{N$

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19. Discrepancy Indication Space

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P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 LEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 9-30-94 Manifest 1. Generator's US EPA ID No. **UNIFORM HAZARDOUS** Information in the shaded areas is not required by Federal law, but is required by Illinois law. 79648 ILD025415266 **WASTE MANIFEST** 3. Generator's Name and Mailing Address Location If Different A. Illinois Manifest Document Number FEE PAID IF APPLICABLE 9648 MOREY CORP. 2659 WISCONSIN AVENUE, DOWNERS GROVE, IL 60515 (708)964-23004. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* C. Junga Transfordir at D. 2762 D. 1781 - San J. Mariansporari - Priori Publica Transfordir at Priori 5. Transporter 1 Company Name US EPA ID Number ENVIRONMENTAL WASTE SERVICES ILR000007047 7. Transporter 2 Company Name US EPA ID Number OZINGIA TRANSPORTATION SYSTEMS 982 067 175 FIVE BOSCA Transporter's Phone 9. Designated Facility Name and Site Address EWR INC. 2390 S. BROADWAY ST. COAL CITY, IL 60416 H. Facility Phone 3 2005 7 (815) 634 2211 ILD087157251 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Waste No. Total Туре No. Quantity a. RQ WASTE FLAMMABLE LIQUID, AND AROMATIC HYDROCARBONS) 3 UN1993 PG II (D001) X1.D001 E N.O.S. (ALIPHATIC 0.0.1 1).0,0,J 000129 E b. R T RECEIVED O MAY 31 1996 d. THE MOREY COM K, Handling Codes for Wastes Listed Above in Item 14 G = Gallons : Y = Cubic Yards 15. Special Handling Instructions and Additional Information Emergency Contact # (708)964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Date Month Day Year Printed/Typed Name 051396 17. Transporter 1 Acknowledgement of Receipt of Materials Date Month Day Year Printed/Typed Name Signature Date 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature 052091

052296 17 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide of \$55,000 per day of violation. Falsification of this information may result in a line up to \$50,000 internent Center. Agency is authorized to require pursuant to Minots Revised Statute, 1989, Chapter 111 information may result in a civil penalty against the owner or operator not to exceed day of violation and imprisonment up to 5 years. This form has been approved by the Form Menage

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Date Month Day

Year

The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and nonhazardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. FOON (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part 1 should be used.

INSTRUCTIONS TO GENERATORS (Please type)

- Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this
 Manifest (eg. 00001) by the generator.
- 2. Enter total number of pages comprising this Manifest.
- 3. Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- 4. Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.
- B. Enter the generator's Illinois EPA ten digit identification number.
- 5,6,C,D. For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- 7,8,E,F. If applicable, enter the information requested for the second transporter who will transport the waste
- 9,10,G,H. For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- 11. Enter the US DOT Proper Shipping Name. Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase 'not hazardous by DOT."
- 12. Enter the number of containers for each waste and the appropriate abbreviations for the type of containers

Metal boxes or roll-offs L·M -Metal drums CM =CW = Wooden boxes DW = Wooden drums DF = CF = Fiberboard or plastic drums Fiberboard or plastic bags Burlay, of the paper or plastic bags UY = Cylinders BA = DT =Dunn trucks TT = Tank trucks TC = Table cers Ψp → Tanks portable

- 13. Enter the cotal quantity (gallons or cubic yards) of each waste.
- 14. Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.
- I. Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).
- J.K. If needed, enter additional description or information/instructions for the material listed in item 11.
- 15. If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For informational shipments, generators must enter the point of departure (City and State) for shipments destined for the transportation of the United States in this space.
- 15. For generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another under maddition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTEUCTIONS TO TRANSPORTER: 17,18. The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt.

UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- 19. The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 III. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20 Print of type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

Ketam ope 2, send copy 1 to the generator, and send copy 2 in Illianis EPA cuitium 30 days of the delivery).

Public reporting barden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U. S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Environmental Waste Resources, Inc., herein certifies that the waste

Date: Oct. 7, 1996

identified below has been treated at our facility in Coal City, Illinois.

The material listed below has been treated and/or disposed of in accordance with all applicable Federal, State and Local Regulations. The RCRA handling method(s) as defined in 40 CFR Part 265, Appendix 1, Table 2, Parts 2 & 3 used to manage waste, is herein attested to.

Manifest # IL.7256570

Manifest Date 9/26/96

Completion Date 10/7/96

Environmental Waste Resources, Inc.

General Manager

Environmental Waste Resources, Inc., herein certifies that the waste

Date: May 29, 1996

identified below has been treated at our facility in Coal City, Illinois.

The material listed below has been treated and/or disposed of in accordance with all applicable Federal, State and Local Regulations. The RCRA handling method(s) as defined in 40 CFR Part 265, Appendix 1, Table 2, Parts 2 & 3 used to manage waste, is herein attested to.

Manifest # IL.6779648

Manifest Date 5/13/96

Completion Date 5/29/96

Environmental Waste Resources, Inc.

General Manage

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 P.O. BOX 19276 State Form LPC 62 8/81 IL532-0610 LEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 9-30-94

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П	7. Transporter 2 Company Name	8.	US EPA ID Nu	mber	E. MINOR TA	المنافقات ا					
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1	15. Special Handling Instructions and Additional In			ALC DE LEGIS		LOSD-J R I V		2 13 2 3			
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	Emergency Contac	t # /08~9t	54-2300					. !			
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1	16. GENERATOR'S CERTIFICATION: I hereby declar proper shipping name and are classified, packed,	marked, and labeled	, and are in all respects					13			
	according to applicable international and national If I am a large quantity generator, I certify that I is	•		n and toxicity of w	racia acasaretad	to the doores	1 have determine	ned to			
ľ	be economically practicable and that I have select	ed the practicable me	thod of treatment, stora	ge, or disposal cu	rrently available	to me which r	ninimizes the pr	esent			
1.	and future threat to human health and the environ select the best waste management method that is			i nave made a go	or nome mass no	minimize my	Waste generation	n and			
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ě	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials /	Signature		<u>`</u>		Month Day	y Year			
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+	20. Facility Owner or Operator: Certification of rec	eipt of hazardous m	aterials covered by th	is manifest exce	pt as noted in	item 19.	Date				
Ÿ	Printed/Typed Name		Signature				Month Day	Year			
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This Agency is authorized to require, pursuant to Binois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Fails/fication of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

The Illinois Uniform Manifest must be used for all shipments of special wasts (hazardous and respectations) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PIMW (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part 1 should be used.

INSTRUCTIONS TO GENERATORS (Please type)

- 1. Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (eg. 00001) by the generator.
- 2. Enter total number of pages comprising this Manifest.
- 3. Enter generator's name and mailing address. If location of waste generation is different from mailing address, address, address.
- 4. Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may no reached in the event of an emergency.
- B. Enter the generator's Illinois EPA ten digit identification number.
- 5,6,C,D. For the first transporter who will transport the waste, enter the conspany name, US EPA ID number, the noise EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- 7,8,E,F. If applicable, enter the information requested for the second transporter who will transport the weeks.
- 9,10,G,H. For the facility designated to receive the waste, enter company name, address, US EPA ID number, illipois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- 11. Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NAUN number) for each westere identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste, plus the phrase "not hazardous by DOT."
- 12. Enter the number of containers for each waste and the appropriate abbreviations for the type of containers

CM = Metal boxes or roll-offs DM = Metal druins CW = Wooden boxes DW = Wooden driving CF = Fiberboard or plastic bags DF = Fiberhoard of plastic drains BA = Burlap, cloth, paper or plastic bags CY = Cylinders DT = TT = Tank trucks Dump trucks TC = TP = Tanks portable Tank cars

- 13. Enter the total quantity (gallons or cubic yards) of each waste
- 14. Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.
- I. Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered other numbers should be listed in Section J. For nonhezardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specials for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).
- J.K. If needed, enter additional description or information/instructions for the material listed in item 11.
- 15. If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. Use international shipments, generators must enter the point of departure (City and State) for shipments destined to treatment storage, or disposal outside the jurisdiction of the United States in this space.
- 16. The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or sir) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: 17,18. The person accepting the waste on behalf of the transporter mest acknowledge acceptance of the waste described on the Manifest by signing and autering the date of receipt UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility according to the second state of the second

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- 19. The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 or a significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20. Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That promote must acknowledge acceptance of the waste by signing and entering the date of receipt.

Retain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EFA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing unsuredone, gethering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U. S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and the Office of Information and Regulatory Affairs, Office of Management and Budget Weshington, DC 20603.



NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL

- (Initial Waste Generator Only) -

1 am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME 1 MOT	GENERATOR'S NAME Morey Corp. GEN. EPA I.D. NUMBER L. D. D. 12 15 14 1 1 52 6 6 1									
EWR STREAM NO.1 21226	MANIFEST	NO. L IL 61	648118	Line No. 111a		□11d				
PROHIBITIONS AND RESTRICTIONS	Complete a column f	or each waste number	used to identify the wa	ste, as applicable, by c	ompleting blocks and	checking (/) boxes.				
1. U.S. EPA Wasie Number	D001									
Former USEPA Waste Numbers: (if previously treated to remove hazardous characteristic)		,								
2. Sobcategory:	High TOC Ign. Liq.									
3. Treatability Group: Wastewater Non-Wastewater										
4. For F001-F005, D001 (DEACT ealy). and D012-D043 wastes, list all bazardous coestituents.										
5. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,800 ppm Appendix (II HOCs for which specific treatment standards do not apply: (CMBST)										
6. This waste is subject to a treatment standard under 40 CFR 268.48: • Waste Requires Treatment • Waste Does Met Require Treatment		8				8				
7. This waste is subject to a prohibition under 40 CF:\;258.32(a) or RCRA Sec. 3004(6): (California List prohibitions)										
8. This waste is a Lab Pack subject to the afternative treatment standard under 40 CFR 268.42(c).			·							
9. This waste is hazardous debris subject to 40 CFR 268.45. (over 50% of waste is debris)										
10. This waste is subject to an exemption from breatment under: - a national capacity variance - a Case-by-case extension - 40CFR288.8		<u></u>	00	000	000					
The exemption expires sec										
ADDITIONAL REQUIREMENTS	Check all that apply, as	nd follow instructions.								
☐ APPENDIX IV LAB PACK (Complete Co ☐ WASTE MEETS A TREATMENT STAND ☐ PRESENT OR FORMER DOO1, DOO2 O	ARD, AS INDICATED A IR D012-D043 WASTES		plete Certification 3	_	US DEBRIS (Complete	Table 3)				
LI FORMER DOOT, DOOZ OR DOT2-DO43 WHICH DO NOT MEET UNIVERSAL TR	FORMER DOO1, DOO2 OR DO12-DO43 WASTES WHICH DO NOT MEET UNIVERSAL TREATMENT STANDARDS (complete Certification [2]) This page is a continuation sheet.									

TABLE 1 — UNDERLYING HAZARDOUS CONSTITUENTS AS DEFINED IN 40 CFR 268.2(6) AT THE FOLLOWING LEVELS WHICH DO NOT MEETTHE TREATMENT STANDARDS SHOWN IN 40 CFR 268.48 TABLE UIS:									
CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION				
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TABLE 2 "CALIF	ORNIA LIST" PROHIBIT	10NS							
	≥ 134 PPM NICKEL (I	· —	• -						
≥ 1,000 PPM but< 10,00	O PPM Appendix III HOCs and prima	rily water. (Only for wastes with a	no specific Subpart D HOC Treatment	Standard)					
TABLE 3 — HAZARI This hazard	DOUS DEBRIS lous debris is subject to the alternati	ve treatment standards of 40 CFR	268.45." The contaminants subject to	treatment pursuant to 40 CFR 2	68.45(b) are:				
L									
L									
		CERTIFIC	CATIONS						
and that the lab pack contains 1V to part 268 or solid wastes	w that I personally examined and sonly the wastes that have not be sont subject to regulation under enalties for submitting a false onment.	en excluded under Appendix 40 CFR part 261, I am aware	"I certify under penalty of law requirements of 40 CFR 268.40 t waste contains underlying hazz universal treatment standards submitting a false certification	that the waste has been tre o remove the hazardous chara ardous constituents that requ s. I am aware that there a	cteristic. This decharacterized ire further treatment to meet re significant penalties for				
Signature	Date		Signature	Date					
"I certify under penalty of la certification that the waste c	TREATMENT STANDARD(S w that I personally have examin omplies with the treatment stand formation I submitted is true, a onment."	ned and am familiar with the widderds specified in 40 CFR part (268 Subpart D and all applicable	prohibitions set forth in 40 Ci	R 268.32 or RCRA section				
Signature	Date								
4 FORM CERTIFICA									
that an amissions or a	information supplied aborrors exist.*	_		est of my knowledge ar	d ability to determine				
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NAME									
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P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

IL532-0610

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

LE	ASE TYPE (Form designed for use on elite (1		e Form LPC 62 8/8 EPA Form 8	1 IL532-0 700-22 (Rev.		Form An	Moved ON	3 No. 2050-003	O Evoiree O	20.04
À	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US	EPA ID No.	Mani Docume 3 S A	nt No.	2. Page 1	Information	on in the sharp	ded areas i	s not
	3. Generator's Name and Mailing Address Money Conp.	Location	n If Different		A.	IL 63		36	DEF PAID F APPLIC	ABLE
	2659 Wisconsin Ave., 4.*24 HOUR EMERGENCY AND SPILL ASSIS 5. Transporter 1 Company Name			154-230		Generation ID	i io	30305	015 9	
	Environmental Waste Se	rvices L	11.09849	6197	<u> </u>			E d ranspo		1
L	7. Transporter 2 Company Name		US EPA ID	· · · · · · · · · · · · · · · · · · ·				Transpo		nę
ľ	9. Designated Facility Name and Site Address EWR Inc.	10.	US EPA ID	Number		D	31.4	05302	anoni	*
	2390 S. Broadway St. Coal City, IL 60416	1	1LD08715	7251	T.	ecity o	hone .	-		
	11. US DOT Description (Including Proper Shipp	ing Name, Hazard		<i>per)</i> 12	. Containe No. Tyr	T	13. otal antity	AANAOH	Weste No	
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	E. Special Handling Instructions and Additional Emergency Contact	Information	64-2300		表注 生	n item		Vei CÜ	2	はのよう
1	Emergency Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date									
	If I am a large quantity generator, I certify that I be economically practicable and that I have select and future threat to human health and the environce select the best waste management method that	cted the practicable manners; OR, if I am a	nethod of treatment, s small quantity genera	torage, or dis	posal curren	itly available	e to me wh	ich minimize:	s the prese	ent .
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1	7. Transporter 1 Acknowledgement of Receipt of Printed/Typed Name	f Materials	Signature	13085 S				Mont	Date h Day	Year
	8. Transporter 2 Acknowledgement of Receipt of	f Materials	Cienatura			13-64		Mont	Date h Day	-t Year
	Printed/Typed Name		Signature						<u>.</u>	
1	9. Discrepancy Indication Space									
2	10. Facility Owner or Operator: Certification of re	ceipt of hazardous		y this manife	st except a	s noted in	item 19.	Manti	Date	Vers
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State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 9-30-94 Manifest Information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM HAZARDOUS 1. Generator's US EPA ID No. **WASTE MANIFEST** ILD025415266 85319 A Illinois Manifest Document Number FEE PAID FEE PAID IF APPLICABLE 3. Generator's Name and Mailing Address Location If Different Morey Corp. B. 10430305029 2659 Wisconsin Ave., Downers Grove, IL 60515 708-964-2300 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* US EPA ID Number 5. Transporter 1 Company Name Environmental Waste Services ILD984916197 00120月1日日 1月1日 To the second of US EPA ID Number 7. Transporter 2 Company Name O Mind a 1 Q63Q2Q0DQ3 9. Designated Facility Name and Site Address US EPA ID Number 10. EWR Inc. 2390 S. Broadway St. 615 634-2211 Coal City, IL 60416 ILD087157251 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13 Total Unit Туре No. Quantity G RQ Waste Flammable Liquid, N.O.S. X, pq01 E (Aliphatic And Aromatic Hydrocarbons) ののさ N PG II (D001) Ε b. R A T 0 d. 102-1000 J. Additional Description for Materials Listed Above BIIC the National Hesponse Center at 15. Special Handling Instructions and Additional Information Emergency Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name . Day Signature 800 / 424-8802 or 202 / 425-25 Date 17. Transporter 1 Acknowledgement of Receipt of Materials Day Printed/Typed Name. 1.3100 Date 18. Transporter 2 Acknowledgement of Receipt of Materials Year Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space Date 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day Year Printed/Typed Name Signature

This Agency is authorized to require, pursuant to Minois Revised Statute, 1989, Chapter 111 1/2, Section this information may result in a civil penetry against the owner or operator not to exceed \$25,000 per per day of violation and impresonment up to 5 years. This form has been approved by the Forms Management Center. 1004 and 1021, that this information ries of violation. Falsification of this

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NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL

- (Initial Waste Generator Only) -

1 am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

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GENERATOR'S NAME More	ey Corp.			D. NUMBER LL	P P 12 15 141	1 52 6 6	
EWR STREAM NO.L 21226	MANIFEST	NO. LIL63	85436	Line No. 🔀 11a	11b 11c	□ 11d	
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number	used to identify the war	ste, as applicable, by c	ompleting blocks and	checking (/) boxes.	
1. U.S. EPA Waste Number:	D001						
Former USEPA Waste Numbers: (If previously treated to remove hazardous characteristic)		•					
2. Subcategory:	High TOC Ign. Liq.	•					
3. Treatability Group: Wastewater Non-Wastewater							
4. For F001-F005, D001 (DEACT only), and D012-D043 wastes, list all hazardous constituents.							
5. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing >1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (CMBST)				· · · · · · · · · · · · · · · · · · ·	~		
6. This waste is subject to a treatment standard under 40 CFR 268.46: • Waste Requires Treatment • Waste Does Not Require Treatment	<u> </u>	8					
7. This waste is subject to a prohibition under 40 CFR 288.32(a) or RCRA Sec. 3004(d): (California List prohibitions)							
8. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(c).							
9. This waste is hazardous debris subject to 40 CFR 200.45. (over 50% of waste is debris)						!	
10_This waste is subject to an exemption from treatment under: • a national capacity variance • a Case-by-case extension • 40CFR258.5			000	000	000	000	
The exemption expires on:					·		
ADDITIONAL REQUIREMENTS	Check all that apply, a	nd follow instructions.					
☐ APPENDIX IV LAB PACK (Complete Certification ☐ "CALIFORNIA LIST" (Complete Table 2) ☐ HAZARDOUS DEBRIS (Complete Table 3) ☐ WASTE MEETS A TREATMENT STANDARD, AS INDICATED ABOVE IN ROW 6. (Complete Certification ☐) ☐ PRESENT OR FORMER DOO1, DOO2 OR DO12-DO43 WASTES. (complete Table 1.)							
FORMER DOO1, DOO2 OR DO12-DO43 WHICH DO NOT MEET UNIVERSAL TR	WASTES] This page is a conti	nuation sheet.	

TABLE I — UNDER		DC CHOVALIN 40 OFF O	O 40 TABLE LUC.	S) AT THE FULLOWIN	IG LEVELS WHICH DC				
NOT MEET THE TR	EATMENT STANDAR	DS SHOWN IN 40 CFR 20	0.48 TABLE UIS:		,				
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TABLE 2 - "CALIF	ORNIA LIST" PROHIE	BITIONS							
□ ≥ 50 PPM PCBs (fiquid)	☐ ≥ 134 PPM NICKI	EL (liquid)	LLIUM (liquid) 🔲 OTHER (Specif	y)					
≥ 1,000 PPM but< 10,00	00 PPM Appendix III HOCs and p	rimarily water. (Only for wastes with	no specific Subpart D HOC Treatment	Standard)					
TABLE 3 HAZAR									
This hazar	dous debris is subject to the after	native treatment standards of 40 CFR	268.45." The contaminants subject to	treatment pursuant to 40 CFR 2	(68.45(b) are:				
<u> </u>									
•		CERTIFIC	CATIONS	-					
LAB PACK			2 FORMER D001, D002	or D012-D043 WASTES					
and that the lab pack contain	is only the wastes that have no	and am familiar with the waste t been excluded under Appendix	"I certify under penalty of law requirements of 40 CFR 268.401	o remove the hazardous chara	cteristic. This decharacterized				
that there are significant possibility of fine or impris	penalties for submitting a fa	der 40 CFR part 261. I am aware also certification, including the	waste contains underlying hazz universal treatment standards submitting a false certification	s. I am aware that there	ire significant penalties for				
Signature	D	ate	Signature	Date					
WASTE MEETING TREATMENT STANDARD(S) 1 certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or thorough knowledge of the waste to support this certification that the waste compiles with the treatment standards specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the									
certification that the waste	complies with the treatment s information I submitted is tru	tandards specified in 40 CFR part	268 Subpart D and all applicable	prohibitions set forth in 40 C	FR 268.32 or RCRA section				
certification that the waste (3004(d). I believe that the i possibility of fine or impris	complies with the treatment s information I submitted is tru comment."	tandards specified in 40 CFR part	268 Subpart D and all applicable	prohibitions set forth in 40 C	FR 268.32 or RCRA section				
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<u>'</u>	P.O. BOX 19	276 SPRINGFIELD, ILI	LINOIS 62794-9276 (2	217) 782-6761		FOR SHIPMEN	IT OF HAZARDOUS	
PL	EASE TYPE (Form designed for use on elite (:		LPC 62 8/81 EPA Form 8700-22	IL532-0610 ! (Rev. 6-89)	Form Apr		050-0039, Expires 9-30-94	
4	UNIFORM HAZARDOUS	1. Generator's US EPA ID	No.	Manifest Document No.	2. Page 1	Information in t	he shaded areas is not eral law, but is required by	
11	WASTE MANIFEST 3. Generator's Name and Mailing Address	ILD025415; Location If Diffe		85041	A. Illinois Ma	Illinois law.	•	-
П	Morey Corp.	Eccation in Diff.	orom		11.63	85041	FEE PAID IF APPLICABLE	
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	4. *24 HOUR EMERGENCY AND SPILL ASSIS	TANCE NUMBERS 70	08-964-23		· ID Marie 7	04303	050291-1-1	<u>]</u>]
	5. Transporter 1 Company Name	6. 	US EPA ID Numb				≥ 1 2702	
	Environmental Waste Se 7. Transporter 2 Company Name	ervices [11	LD9849161 US EPA ID Numb				ansporter's Phone	_
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	9. Designated Facility Name and Site Address	10.	US EPA ID Numb	per	G. Illinois A.A.			7
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	15. Special Handling instructions and Additional	Information					7,	
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	16. GENERATOR'S CERTIFICATION: I hereby deci proper shipping name and are classified, packet						······································	18
	according to applicable international and nations	al government regulations.						sponse
	If I am a large quantity generator, I certify that be economically practicable and that I have sele	cted the practicable method of	f treatment, storage,	or disposal cu	rrently available	to me which m	inimizes the present	
	and future threat to human health and the environment method that	is available to me and that I o	antity generator, i na can afford.∱	ave made a go	od talth ellort to	minimize my w	Date	Center
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+	20. Facility Owner or Operator: Certification of re	celot of hazardous material	s covered by this r	nanifest exce	pt as noted in	item 19.	Date	18
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th pe	his Agency is authorized to require, pursuant to flifficia flevi is information may result in a civil penalty against the own or day of violation and imprisonment up to 5 years. This form has be	eed Statute, 1989, Chapter 111 1 her or operator not to exceed \$3 en approved by the Forms Managemi	I/Z, Section 1004 and 25,000 per day of viol ent Center.	1021, that this lation. Falsification	information be su n of this informa	printed to the Ag- tion may result in	ency. Failure to provide a fine up to \$50,000	

Date: Jan. 27, 1995

Environmental Waste Resources, Inc. herein certifies that the waste identified below has been treated at our facility in Coal City, Illinois. The material listed below has been treated and/or disposed of in accordance with all applicable Federal, State and Local Regulations. The RCRA handling method(s) as defined in 40 CFR Part 265, Appendix 1, Table 2, Parts 2 & 3 used to manage waste, is herein attested to.

Manifest # 6385041

Manifest Date 1/18/95

Completion Date 1/23/95

Environmental Waste Resources, Inc.

General Manager

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 FOR SHIPMENT OF HAZARDOUS P.O. BOX 19276 AND SPECIAL WASTE 1005 se on ellie (12-pitch) typewriter.) State Form LPC 62 8/81 H 532-0610 PLEASE TYPE EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039, Expires 9-30-94 Manifest Document No. 1. Generator's US EPA ID No. 2. Page 1 Information in the shaded areas is not required by Federal law, but is required by Illinois law. UNIFORM HAZARDOUS WASTE MANIFERNY 85319 ILD025415266 3. Generator's Name and Mailing Address A Illinois Manifest Document Number.

IL 6385319 FEE PAID IF APPLICABLE Location If Different Morey Corp. IF APPLICABLE B. Illinois 2659 Wisconsin Ave., Downers Grove, IL 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 708-964-2300 5. Transporter 1 Company Name US EPA ID Number **Environmental Waste Services** ILD984916197 6.4008班位建 **US EPA ID Number** 7. Transporter 2 Company Name 9. Designated Facility Name and Site Address US EPA ID Number 10. EWR Inc. 068020000 Office 2390 S. Broadway St. Coal City, IL 60416 ILD087157251 q 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Containers 13 Total Unit Emergency Waste No. No. Type Quantity RQ Waste Flammable Liquid, N.O.S. . (Aliphatic And Aromatic Hydrocarbons) **00**2 N PG II (D001) b. Response R τ C. 0 217 / 782-7860 đ. and = Cubic Yards æ National Response 15. Special Handling Institutions and Additional Information Emergency Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to humany fleath and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and Center select the best waste management method that is available to me and that I can affor Date Day Printed/Typed Name Signature 괊 7 008 1 Date 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Day Signature 424-8802 Date 18. Transporter 2 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature q 202 / 426 19. Discrepancy Indication Space -2675 20. Facility Owner or Operator: Cartification of receipt of hazardous materials covered by this manifest except as goted in item 19. Date Day Year Printed/Typed Name Month Signature

Date:

April 29,1995

Environmental Waste Resources, Inc., herein certifies that the waste identified below has been treated at our facility in Coal City, Illinois. The material listed below has been treated and/or disposed of in accordance with all applicable Federal, State and Local Regulations. The RCRA handling method(s) as defined in 40 CFR Part 265, Appendix 1, Table 2, Parts 2 & 3 used to manage waste, is herein attested to.

Manifest #

IL 6385319

Manifest Date

April 21,1995

Completion Date

April 28,1995

Environmental Waste Resources, Inc.

General Manager

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GENERATOR'S CERTIFICATION: I hereby decl							
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20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day Printed/Typed Name Signature

to litinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 This form has been approved by the Forms Management Center.

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NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL

-- (Initial Waste Generator Only) --

I am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

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	ey Corp.			D. NUMBER LL		112K 6 6		
EWR STREAM NO.L 21226	MANIFEST	NO. LIL63	83071	Line No. 🔯 11a	11b 11c	□11d		
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number	used to identify the wa	sle, as applicable, by c	ompleting blocks and	checking (/) boxes.		
1. U.S. EPA Wasie Number:	D001							
1a. Former USEPA Waste Numbers: (If proviously treated to remove hazardous characteristic)		,						
2. Subcategory:	High TOC Ign. Liq.	 						
3- Treatability Group: Wastewater Non-Wastewater								
4. For F001-F005, D001 (DEACT only), and D012-D043 wastes, list all bazardous constituents.								
5. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (CMSST)								
6. This waste is subject to a treatment standard under 40 CFR 268.40: • Waste Requires Treatment • Waste Does Not Require Treatment								
7. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (Calliornia List prohibitions)								
8. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(c).								
9. This waste is bazardous debris subject to 40 CFR 268.45. (over 50% of waste is debris)								
10. This wasta is subject to an exemption from treatment under: • a national capacity variance • a Case-by-case extension • 40CFR258.5					000	000		
The exemption expires on:	ł							
ADDITIONAL REQUIREMENTS	Check all that apply, a	od follow instructions.						
WASTE MEETS A TREATMENT STAND	APPENDIX IV LAB PACK (Complete Certification 1) CALIFORNIA LIST" (Complete Table 2) HAZARDOUS DEBRIS (Complete Table 3) WASTE MEETS A TREATMENT STANDARD, AS INDICATED ABOVE IN ROW 5. (Complete Certification 1) PRESENT OR FORMER DOO1, DOO2 OR DO12-DO43 WASTES. (complete Table 1.)							
	WHICH DO NOT MEET UNIVERSAL TREATMENT STANDARDS (complete Certification 2) This page is a continuation sheet.							

TABLE 1 — UNDER	RLYING HAZARDOUS COREATMENT STANDARDS	ONSTITUENTS AS DE	FINED IN 40 CFR 268.2(58.48 TABLE UIS:	(6) AT THE FOLLOWIN	IG LEVELS WHICH DO
CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION
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TABLE 3 — HAZAR	.,	,			268.45(b) are:
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and that the lab pack contain IV to part 268 or solid waste	aw that I personally examined and ns only the wastes that have not bee es not subject to regulation under a penalties for submitting a false sonment."	d am familiar with the waste een excluded under Appendix 40 CFR part 261. I am aware	2 FORMER D001, D002 1 certify under penalty of law requirements of 40 CFR 268.40 waste contains underlying haz universal treatment standard submitting a false certification	w that the waste has been tre O to remove the hazardous chara zardous constituents that requ ds. I am aware that there a	eated in accordance with the acteristic. This decharacterized ulre further treatment to meet are significant penalties for
Signature	Date		Signature	Date	e
WASTE MEETING To certify under penalty of lacertification that the waste of	TREATMENT STANDARD(S) law that I personally have examin- complies with the treatment stand information I submitted is true, ac	S) ned and am familiar with the w dards specified in 40 CFR part 2	waste through analysis and testi	ting or thorough knowledge o e prohibitions set forth in 40 Ci	of the waste to support this CFR 268.32 or RCRA section
Signature	Date				
4 FORM CERTIFICA					
"I hereby certify that all that no omissions or e	Il information supplied aboverrors exist."	ve, and attached, is com	plete and accurate to the b	pest of my knowledge ar	nd ability to determine
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For assistance it do	ompleting this form, co	ntact EWR at (203) 7	55-2283 .	•	0001.0

P O BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

PLE	ASE TYPE (Form designed for use on elite (12		Re Form LPC 62 8/81	16532-0610 1 00-22 (Rev. 6-89)	Form Ac	proved. OMB No	. 2050-0039, Expires 9-30-94		
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US	S EPA ID No. 435266	Manifest Document No.	2. Page 1	Information in required by Fo Illinois law.	the shaded areas is not ideral law, but is required by		
	3. Generator's Name and Mailing Address Money Corp.	A Illinois Manifest Document Number FEE PAID IL 6385068 FEE PAID IF APPLICAB							
		2659 Wisconsin Ave., Downers Grove, II. 60515 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS' 708-964-2300 Transporter 1 Company Name 6. US EPA ID Number							
	Environmental Waste Se 7. Transporter 2 Company Name	Environmental Wasta Services II 084016107 Transporter 2 Company Name 8. US EPA ID Number Entropy I problem 1							
	9. Designated Facility Name and Site Address EWR Inc.	10.	US EPA ID	Number			Transporter e Phone		
	2390 S. Broadway St. Coal City, IL 60416								
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	15. Special Handling Instructions and Additional Information Emergency Contact # 703-964-2300								
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.								
	If I am a large quantity generator, I certify that I be economically practicable and that I have select and future threat to human health and the environselect the best waste management method that	ted the practicable inment; OR, if I am a	method of treatment, st small quantity generat	orage, or disposal cu	irrently availab	le to me which	of have determined to minimizes the present waste generation and		
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FAC	9. Discrepancy Indication Space						Date		
<u> </u>	20. Facility Owner or Operator: Certification of re- Printed/Typed Name	ceipt of hazardous	materials covered by Signature	this manifest exce	opt as noted in	item 19.	Date Month Day Year		

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### NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL

- (Initial Waste Generator Only) -

I am supplying this notice and certification to Environmental Waste Resources, Inc. In accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME L MOTE	ey Corp.			D. NUMBER IL	D D 12 15 141	1,5266
EWR STREAM NO.L 21226	MANIFEST	NO. 1 <u>IL63</u>	85068	Line No. 🔯 11a		□ 11d
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number	used to identify the wa	ste, as applicable, by c	ompleting blocks and	checking (🗸) boxes.
1.U.S. EPA Waste Number:	D001					
1a. Former USEPA Waste Numbers: (Il previously treated to remove hazardous characteristic)		,				
2. Subcategory:	High TOC Ign. Liq.					
3-Treatability Group:  • Wastewater  • Non-Wastewater						
4. For F001-F005, D001 (DEACT only), and D012-D043 wastes, list all hazardous constituents.						
·						
5. This waste is subject to a treatment standard under 40 CFR 288.42(a) for wastes containing 21,800 ppm Appendix III HOCs for which specific treatment standards do not apply: (CMBST)						
6. This waste is subject to a treatment standard under 40 CFR 268.40:  • Waste Requires Treatment • Waste Does Not Require Treatment						
7. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (California List prohibitions)						
8. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(c).						
9. This waste is hazardous debris subject to 40 CFR 268.45. (over 50% of waste is debris)						
10. This waste is subject to an examption from treatment under:  • a national capacity variance • a Case-by-case extension • 40CFR268.6		000		000		000
The exemption expires on:				,		
ADDITIONAL REQUIREMENTS	Check all that apply, a	nd follow instructions.				
APPENDIX IV LAB PACK (Complete Complete	ARD, AS INDICATED A DR D012-D043 WASTES	•	mplete Certification 🕄	_	US DEBRIS (Complete	Table 3)
WHICH DO NOT MEET UNIVERSAL TR		S (complete Certifica	tion 2 )		This page is a conti	nuation sheet.

TABLE 1 — UNDER NOT MEETTHE TRI	RLYING HAZARDOUS C EATMENT STANDARDS	ONSTITUENTS AS DE S SHOWN IN 40 CFR 26	FINED IN 40 CFR 268.2( 58.48 TABLE UIS:	6) AT THE FOLLOWIN	IG LEVELS WHICH DO
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≥ 50 PPM PCBs (liquid)	_	liquid)	LLIUM (liquid) OTHER (Specino specific Subpart D HOC Treatmen	,	· · · · · · · · · · · · · · · · · · ·
TABLE 3 — HAZAR This hozoro		ve treatment standards of 40 CFR	268.45." The contaminants subject t	o treatment pursuant to 40 CFR :	268.45(b) are:
L					
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		CERTIFIC	CATIONS		
and that the lab pack contain  IV to part 268 or solid waste		een excluded under Appendix r 40 CFR part 261. I am aware	2 FORMER Doo1, Doo2  1 certify under penalty of law requirements of 40 CFR 268.40 waste contains underlying haz universal treatment standard submitting a false certification.  Signature	to remove the hazardous char cardous constituents that req is. I am aware that there n, including the possibility of	eated in accordance with the acteristic. This decharacterized uire further treatment to meet are significant penalties for
"I certify under penalty of la certification that the waste of	complies with the treatment stan information I submitted is true, a	ned and am familiar with the vidards specified in 40 CFR part	waste through analysis and test 268 Subpart D and all applicable ware that there are significant po	prohibitions set forth in 40 C	FR 268.32 or RCRA section
Signature	Date				
4 FORM CERTIFICA	ATION				
*I hereby certify that all that no omissions or e	information supplied abourners exist."	ove, and attached, is com	plete and accurate to the	best of my knowledge a	nd ability to determine
NAME	Riom		TLE	· >	·
	ompleting this form, c	<del></del>			000473

Printed/Typed Name

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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IL532-0610 LPC 62 8/81 LEASE TYPE EPA Form 8700-22 (Rev. 6-89) Form Approved OMB No. 2050-0039, Expires 9-30-94 (Form designed for use on elite (12-pitch) typewriter.) Manifest Document No. **UNIFORM HAZARDOUS** 1. Generator's US EPA ID No. 2 Page 1 Information in the shaded areas is not required by Federal law, but is required by Illinois law. WASTE MANIFEST ILD025415266 85436 A. Illinois Manifest Document Number, FEE F 3. Generator's Name and Mailing Address Location If Different Morey Corp. 2659 Wisconsin Ave., Downers Grove, IL 60515
708-964-2300 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 5. Transporter 1 Company Name US EPA ID Number **Environmental Waste Services** ILD984916197 US EPA ID Number 7. Transporter 2 Company Name 8 US EPA ID Number 9. Designated Facility Name and Site Address 10. EWR Inc. 10630200008 2390 S. Broadway St. Coal City, IL 60416 ILD08715725 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Total Unit Emergency Waste No. No. Туре Quantity RQ Waste Flammable Liquid, N.O.S. E (Aliphatic And Aromatic Hydrocarbons) 00 UN1993 PG II (D001) Hesponse R HECEIVE 0 a MAY 2 5 1995 d. 782-7860 and the National Hesponse Center 15. Special Handling Instructions and Additional Information Emergency Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and st waste management method that is available to me and that I can afford Date Signature Date 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Date 18. Transporter 2 Acknowledgement of Receipt of Materi Printed/Typed Name Signature Month Day 19. Discrepancy Indication Space FAC 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day

Signature

Date: May 23,1995

Environmental Waste Resources, Inc., herein certifies that the waste identified below has been treated at our facility in Coal City, Illinois. The material listed below has been treated and/or disposed of in accordance with all applicable Federal, State and Local Regulations. The RCRA handling method(s) as defined in 40 CFR Part 265, Appendix 1, Table 2, Parts 2 & 3 used to manage waste, is herein attested to.

Manifest # IL 6385436

Manifest Date May 18,1995

Completion Date May 22,1995

Environmental Waste Resources, Inc.

General Manager

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

<u> L</u>	EASE TYPE (Form designed for use on elite (1	2-pitch) typewriter.)	EPA Form 8700-22	Пбу. 6 ₁ 99), г	Form App	roved. OMB No. 2	050-0039, Expires 9-30-94
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	3. Generator's Name and Mailing Address Morey Corp.		Different L	REY DU	Malilinois Ma	Next Document	FEE PAID
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	9. Designated Facility Name and Site Address	10.	US EPA ID Numbe	ır			87Spoter's Phone 8
П	EWR Inc. 2390 S. Broadway St.				THE CHEV'S P.	AL ALIGN	05000030
П	Coal City, IL 60416		LD087157251		algaric	631-221	
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ľ	15. Special Handling Instructions and Additional	Information					
	Emergency Contac	ct # 708-96	4-2300				
	16. GENERATOR'S CERTIFICATION: I hereby deci	are that the contents of	this consignment are fully	and accurate	ly described she	Tve by	
	proper shipping name and are classified, packed according to applicable international and nations	i, marked, and labeled, a	and are in all respects in p				١
ı	If I am a large quantity generator, I certify that I be economically practicable and that I have selected.	cted the practicable meth	nod of treatment, storage, o	or disposal cu	irrently available	to me which mi	have determined to nimizes the present
	and future threat to human health and the environment the best waste management method that	nment; OR, if I am a smile is available to me and the	at I can afford.	ve made a go	ood faith effort to	minimize my wi	Date Date
	Printed/Typed Name To nes OSe1-	Backy -	Signature COSC	Roll	Xv		070595 B
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-	20. Facility Owner or Operator; Oprtification of re	celot of hazardous ma	terials covered by the m	anifest exce	pt as noted in	Item 19.	Date
+	Printed/Typed Name //		Signature Signature	X	p. 20 110100 III	/	Month Day Year
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The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and non-hazardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PINW (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part I should be used.

### INSTRUCTIONS TO GENERATORS (Please type)

- Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this
  Manifest (eg. 00001) by the generator.
- 2. Enter total number of pages comprising this Manifest.
- Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- 4. Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.
- B. Enter the generator's Illinois EPA ten digit identification number.
- 5,6,C,D. For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- 7.8.E.F. If applicable, enter the information requested for the second transporter who will transport the waste
- 9,10,G,H. For the facility designated to receive the waste, enter company name, address, US EPA ID number, illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- 11. Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT."
- 12. Enter the number of containers for each waste and the appropriate abbreviations for the type of containers

CM = Metal boxes or roll-offs

CW = Wooden boxes

DM = Metal drums

DW = Wooden drums

CF = Fiberboard or plastic bags DF = Fiberboard or plastic drums

- 13. Enter the total quantity (gallons or cubic yards) of each waste.
- 14. Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.
- I. Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).
- J.K. If needed, enter additional description or information/instructions for the material listed in item 11.
- 15. It needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For actional shipments, generators must enter the point of departure (City and State) for shipments destined for amment storage, or disposal outside the jurisdiction of the United States in this space.
- 16 The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the searchinghway should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another in which in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: 17,18. The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt.

UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

### INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- 19. The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the maste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20 First or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must be acceptance of the waste by signing and entering the date of receipt.
- Restance of the delivery). Restance of the senerator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public a norting burden for this collection of information is estimated to average: 37 minutes for generators 15 minutes for transporters and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U. S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Date: July 12,1995

Environmental Waste Resources, Inc., herein certifies that the waste identified below has been treated at our facility in Coal City, Illinois. The material listed below has been treated and/or disposed of in accordance with all applicable Federal, State and Local Regulations. The RCRA handling method(s) as defined in 40 CFR Part 265, Appendix 1, Table 2, Parts 2 & 3 used to manage waste, is herein attested to.

Manifest #

IL 6648118

Manifest Date

July 5,1995

Completion Date

July 12,1995

Environmental Waste Resources, Inc.

General Manager

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State Form LPC 62 8/81 IL532-0610

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	15. Special Handling Instructions and Additional Emergency Contact # (708)  16. GENERATOR'S CERTIFICATION: I hereby deci	964-2300	this consignment are	fully and accurat	alv described at	orwe hy		
	proper shipping name and are classified, packed according to applicable international and national if I am a large quantity generator, I certify that I be economically practicable and that I have sele- and future threat to human health and the environal	<ul> <li>d, marked, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and labeled, and lab</li></ul>	and are in all respect s. s to reduce the volum nod of treatment, ston all quantity generator	s in proper condit ne and toxicity of age, or disposal c	ion for transpor waste generated urrently availabl	to the deg	ree I have detern ch minimizes the	present
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The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and not included) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PIMW (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part 1 should be used. 

#### INSTRUCTIONS TO GENERATORS (Please type)

- Enter generator's USEPA twelve digit identification number and the unique five digit document number analogied to this Manifest (eg. 00001) by the generator.
- Enter total number of pages comprising this Manifest.
- Enter generator's name and mailing address I' location of waste generation is different from mailing address, enter location to the right of mailing address.
- Enter telephone number where an authorized agent of the generator, who has knowledge of the wasts, casy to reached in the event of an emergency.
- B. Enter the generator's Illinois EPA ten digit identification number.
- For the first transporter who will transport the waste, enter the company name, US EPA ID number, affire to EPA 5,6,C,D. four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- If applicable, enter the information requested for the second transporter who will transport the vester 7.8.E.F.
- For the facility designated to receive the waste, enter company name, address, US EPA ID number Allineis EPA 9,10,G,H. ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached
- 11. Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT."
- 12. Enter the number of containers for each waste and the appropriate abbreviations for the type of containers

CM =Metal hoxes or roll-offs

DM -Metal drums

DW = CW = Wooden drums Wooden boxes

DF -Fiberboard or plastic drums CF = Fiberboard or plastic bags

Cylindera CY = Burlap, cloth, paper or plastic bags BA =DT = TT =Tank trucks Dump trucks

TP =TC = Tank cars Tanks portable

- 13. Enter the total quantity (gallons or cubic yards) of each waste.
- 14. Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.
- Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered - other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).
- J.K. If needed, enter additional description or information/instructions for the material listed in item 11.
- 25. If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For national shipments, generators must enter the point of departure (City and State) for shipments destined for ment storage, or disposal outside the jurisdiction of the United States in this space.
- my generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the send highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another tions in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

The person accepting the waste on behalf of the transporter must INSTRUCTIONS TO TRANSPORTER: 17,18. ncknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt. UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

#### Instructions to owners and operators of treatment, storage, or disposal facilities:

- 19. The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 and significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20. Print of type name of the person accepting the waste on behalf of the owner or operator of the facility. That needed must arknowledge acceptance of the waste by signing and entering the date of receipt.

Retain  $exp_{xy}$  3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 months for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gettle ering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U. S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and the Office of Information and Regulatory Affairs. Office of Management and Budget, Washington, DC 20503.

#### CERTIFICATE OF DISPOSAL

Date: October 30,1995

Environmental Waste Resources, Inc., herein certifies that the waste identified below has been treated at our facility in Coal City, Illinois. The material listed below has been treated and/or disposed of in accordance with all applicable Federal, State and Local Regulations. The RCRA handling method(s) as defined in 40 CFR Part 265, Appendix 1, Table 2, Parts 2 & 3 used to manage waste, is herein attested to.

Manifest # IL 6648497

Manifest Date October 18,1995

Completion Date October 27,1995

Environmental Waste Resources, Inc.

General Manager

STATE UF ILLINOIS

-P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

EASE TYPE (Form designed for use on elite (1		EPA Form 870	00-22 (Rev. 6-89)	Form A	pproved. OMB I	No. 2050-0039, Expires 9-30-94
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US El	. ,	Manifest Document No.	2. Page 1 of	Information required by [llinois law.	In the shaded areas is not Federal law, but is required by
3. Generator's Name and Mailing Address	Location I			A. Illinois W	4849	FEE PAID  FEE PAID  FAPPLICABLE
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5. Special Handling Instructions and Additional	Information					endere de
GENERATOR'S CERTIFICATION: I hereby dec proper shipping name and are classified, packe according to applicable international and nation.	d, marked, and labeled,	and are in all respec				у
If I am a large quantity generator, I certify that be economically practicable and that I have sele and future threat to human health and the environ select the best waste management method that	cted the practicable met inment; OR, if I am a sm	hod of treatment, sto all quantity generate	orage, or disposal cu	irrently availal	ole to me whic	th minimizes the present my waste generation and
Printed/Typed Name		Signature				Month Day Year
7. Transporter 1 Acknowledgement of Receipt	of Materials	<u>!</u>				Date
Printed/Typed Name		Signature				Month Day Year
Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	of Materials	Signature				Date Month Day Year
9. Discrepancy Indication Space		<u> </u>	<u> </u>	<del>- J</del>		<u></u>
Facility Owner or Operator: Certification of re	celpt of hazardous ma	iterials covered by	this manifest exce	pt as noted i	n item 19.	Date
Printed/Typed Name		Signature				Month Day Year

The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and numberardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PIMV (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part I should be used.

#### INSTRUCTIONS TO GENERATORS (Please type)

- 1. Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (eg. 00001) by the generator.
- 2. Enter total number of pages comprising this Manifest.
- 3. Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- 4. Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.
- B. Enter the generator's Illinois EPA ten digit identification number.
- 5,6,C,D. For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EFA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- 7.8.E.F. If applicable, enter the information requested for the second transporter who will transport the waste.
- 9,10,G,H. For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- 11. Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT."
- 12. Enter the number of containers for each waste and the appropriate abbreviations for the type of containers

CM = Metal boxes or roll-offs

DM = Metal drums

CW = Wooden boxes

DW = Wooden drums

CF = Fiberboard or plastic bags

DF = Fiberboard or plastic drums

BA = Burlap, cloth, paper or plastic bags

CY = Cylindera

DT = Dump trucks

TT = Tank trucks

TC = Tank cars

TP - Tanks portable

- 13. Enter the total quantity (gallons or cubic yards) of each waste.
- 14. Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.
- I. Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).
- J.K. If needed, enter additional description or information/instructions for the material listed in item 11.
- 15. If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment storage, or disposal outside the jurisdiction of the United States in this space.
- 16. "The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the world "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO SEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: 17,18. The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave completing copies with the facility symmetric particle.

#### INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL PACHALIBES.

- 19. The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 may significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- 20 Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That present renational acknowledge acceptance of the waste by signing and entering the date of receipt.

Retain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average 37 minutes for generators 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instance and evident spain ering data, and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden to: Chief, Information Policy Branch, PM-223, U. S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and the Office of Information and Regulatory Affairs, Office of Management and Reduct The United Street DC 20503.

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-- (Initial Waste Generator Only) --

I am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

		·			······································					
GENERATOR'S NAME   Morey Corp.   GEN. EPA I.D. NUMBER   L. D. D. 12 15 14 1 1 52 6 6 1										
EWR STREAM NO.L 21226	MANIFEST	NO. LIL66	48497	Line No. 🔼 11a	□11b □11c	<b>11</b> d				
PROHIBITIONS AND RESTRICTIONS	Complete a column f	or each waste number	used to identify the wa	ste, as applicable, by c	ompleting blocks and	checking (/) boxes.				
1.U.S. EPA Waste Number:	D001									
1a. Former USEPA Waste Numbers: (If previously treated to remove hazardous characteristic)		,								
2.Subcalegory:	High TOC Ign. Liq.									
3- Treatability Group:  • Wastewater  • Men-Wastewater	<u> </u>									
4. For F001-F005, D001 (DEACT only), and D012-D043 wastes, list all bazardous constituents.										
			<del></del>		<del></del>	<del></del>				
5. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing 21,800 ppm Appendix til HOCs for which specific treatment standards do not apply: (CMBST)										
6. This waste is subject to a treatment standard under 40 CFR 268.40: • Waste Requires Treatment • Waste Does Not Require Treatment										
7. This waste is subject to a probibition under 40 CFR 256.32(a) or RCRA Sec. 3004(4): (California List prohibitions)										
8. This waste is a Lab Pack subject to the afternative (restment standard under 40 CFR 258.42(c).										
9. This waste is hazardous debris subject to 40 CFR 268.45. (over 50% of waste is debris)										
10.This waste is subject to an exemption from treatment under:  • a national expectly variance • a Case-by-case extension • 40CFR268.6	000		000	000	000	000				
The exemption expires on:										
ADDITIONAL REQUIREMENTS	Check all that apply, a	ad follow instructions.								
APPENDIX IV LAB PACK (Complete C. WASTE MEETS A TREATMENT STAND PRESENT OR FORMER DOO1, DOO2 (C. FORMER DOO1, DOO2 OR DO12-DO43	DARD, AS INDICATED A DR D012-D043 WASTES D WASTES	S. (complete Table 1.)	nplete Certification	_	US DEBRIS (Complete	Table 3)				
WHICH DO NOT MEET UNIVERSAL TR	REATMENT STANDARD	S (complete Certificat	ion 2 )	Г	This page is a conti	nuation sheet.				

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TABLE 1 — UNDEI NOT MEETTHE TR	RLYING HAZARDOUS C EATMENT STANDARDS	ONSTITUENTS AS DE S SHOWN IN 40 CFR 2	FINED IN 40 CFR 268.2( 68.48 TABLE UIS:	6) AT THE FOLLOWIN	IG LEVELS WHICH DO
CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION
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	l				
_ ≥ 50 PPM PCBs (liquid)	FORNIA LIST" PROHIBIT	tiquid)	LLIUM (liquid) OTHER (Specific Subpart D HOC Treatment	· · · · · · · · · · · · · · · · · · ·	
TABLE 3 HAZAR This hozor	DOUS DEBRIS dous debris is subject to the alternativ	ve treatment standards of 40 CFR	268.45." The contaminants subject to	o treatment pursuant to 40 CFR 2	!68.45(b) are:
L		<del></del>		<del></del>	
L					
		CERTIFIC	CATIONS		
and that the lab pack contain IV to part 268 or solid waste	in that I personally examined an is only the wastes that have not be is not subject to regulation under penalties for submitting a false onment."	en excluded under Appendix 40 CFR part 261. I am aware	2 FORMER DOO1, DOO2 1 certify under penalty of law requirements of 40 CFR 268.401 waste contains underlying haz universal treatment standard submitting a false certification	to remove the hazardous chara ardous constituents that requ s. I am aware that there a	sated in accordance with the cteristic. This decharacterized lire further treatment to meet are significant penalties for
Signature	Date		Signature	Date	
"I certify under penalty of a	TREATMENT STANDARD(S aw that I personally have examin complies with the treatment stand nformation I submitted is true, a conment.	ned and am familiar with the dards specified in 40 CFR part	268 Subpart D and all applicable	prohibitions set forth in 40 C	FR 268.32 or RCRA section
Signature	Date				
4 FORM CERTIFICA				and of my linear dades a	
that no omissions of	l information supplied abo errors exist.*				
NAME	HIL MYE	<u> </u>	TLE HAZ N	MAT MILE	2
SIGNATURE X	the My	DA	TE 10/18/55		
For assistance in co	ompleting this form, co	intact EWR at (203) 7	755-2283.	MOR 00	0486

STATE OF ILLINOIS

ASE TYPE (Form designed for use on elite	(12-pitch) typewriter.)		)-22 (Rev. 6-89)	FU	iiiii Approved, Ci	MID NO ZU:	50-0039, Expires 9-30-
UNIFORM HAZARDOUS	1. Generator's US E		Manifest Document No.	2. Pag	je 1 Informa	tion in th	e shaded areas is n allaw, but is required
WASTE MANIFEST	ILD0254	15266	<u>85068</u>	01	] Illinois	law.	
<ol> <li>Generator's Name and Mailing Address</li> <li>Morey Corp.</li> </ol>		If Different			is Manifest D 3850		Number FEE PAID IF APPLICAB
2659 Wisconsin Ave., 4. 24 HOUR EMERGENCY AND SPILL ASSI		ove, IL 6 _708-964-	0515 2300	B. Illino Gene ID	rator a	)43n3	105029
5. Transporter 1 Company Name	6.	US EPA ID N		C. Illino	is Transporte	r'a ID	1 12 70
Environmental Waste 5 7. Transporter 2 Company Name	Services 8.	ILD984911 US EPA ID NO		E. Illino	s Transporte	大田か	insporter's Phone
9. Designated Facility Name and Site Address	10.	US EPA ID Nu	umbor.				ensporter's Phone
EWR Inc. 2390 S. Broadway St.	10.	00 El A 10 No	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	□ID ·	ty's Phone	063	020003
_Coal_City, IL 60416	1	ILD0871572	251	815	) 634		
11. US DOT Description (Including Proper Ship					13. Total	14. Unit	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	<u>D001)</u>			Divi	<u> </u>	G	EPA HW Number
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Additional Description for Meterials Listed Al				In ite	m Maria	1	Listed Above
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5. Special Handling Instructions and Additions  Emergency Contac  6. GENERATOR'S CERTIFICATION: I hereby deproper shipping name and are classified, pack according to applicable international and nation it I am a large quantity generator, I certify that be economically practicable and that I have sel and future threat to human health and the enviselect the best waste management method that Printed/Typed Name  7. Transporter 1 Acknowledgement of Receipt Printed/Typed Name  4. C. C. C. C. C. C. C. C. C. C. C. C. C.	clare that the contents of section of the contents of section of the contents of section of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of the contents of th	i this consignment are and are in all respects ns. ce to reduce the volum thod of treatment, stora nall quantity generator, that I can afford.  Signature  Signature	s in proper condit	ely describion for trainwaste genurrently avoid faith e	allons  allons  bed above by high erated to the callable to me wiffort to minimit	nway degree I h which min ze my wa	nave determined to bimizes the present ste generation and Date Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Month Day Year Mon

# MOR 000488



Date: 2/14/95

Environmental Waste Resources, Inc., herein certifies that the waste identified below has been treated at our facility in Coal City, Illinois. The material listed below has been treated and/or disposed of in accordance with all applicable Federal, State and Local Regulations. The RCRA handling method(s) as defined in 40 CFR Part 265, Appendix 1, Table 2, Parts 2 & 3 used to manage waste, is herein attested to.

Manifest # 63%506%

Manifest Date 2/7/95

Completion Date 2/14/95

Environmental Waste Resources, Inc.

Jack alleavitch /m

IABLE	1 — F001, F002, F003, F004, F005	SPENT SOL	_VENT WAS	TES		
1	CONSTITUENT	WASTEWATERS A	ION-WASTEWATERS Mg/L	CONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS mg/L
268.41(a)	Carbon disulfide	HA	4.8	Methanol	KA	0.75
	(ydohexonone	NA ,	0.75		Laugay average	
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INON.	2-Nitròpropane	(WETOX or CHOXD)	INDM.
	Acetone	0.28	160	Methylene chloride	0.44	K
	Benzene	0.070 5.6	3.7 2.6	(Pharmaceutical industry wastewater sub-category)	ļ	
	Carbon disulfide	0.014	NA NA	Methyl ethyl ketone	0.28	36
	Carbon tetrachloride	0.057	5.6	Methyl isobutyl ketone	0.14	33
	Chlorobenzene	0.057 0.77	5.7 3.2	Nitrobenzene	0.068 0.014	14 16
268.43(a)	o-Cresol	0.77 0.11	5.6	Tetrachloroethylene	0.014	5.6
İ	Cyclohexanone	0.36	NA .	Toluene	0.08	28
	1,2-DichlorobenzeneEthyl acetate	0.088 0.34	6.2 33.	1,1,1-Trichloroethane	0.054 0.030	5.6 7.6
	Ethyl benzene	0.057	6.0	1,1,2-Trichloro-1,2,2,-Trifluorethane	0.057	28
	Ethyl ether	0.12	160	Trichloroethylene		5.6
	Isebutanol	5.6	170	Trichlorofluoromethane	0.02	33
	Methanoi	5.6 0.089	NA 33	Aylene (10101)	0.32	28
TABLES			- <del></del>			
	2 — "CALIFORNIA LIST" PROHIE					
≥ 50 PP	PM PCBs (liquid) □ ≥ 134 PPM NICKE	L (liquid) 🔲	≥ 130 PPM THAL	LIUM (liquid) 🔲 OTHER (Specify)		
□ ≥ 1,000	PPM but< 10,000 PPM Appendix III HOCs and pri	imarily water. (Only	for wastes with n	o specific Subpart D HOC Treatment Standard)		
TABLE 3	— HAZARDOUS DEBRIS		1 1 1 1 1 1 1 1 1 1 1	ve cent	40.000.00	
	This hazardous debris is subject to the aftern	iative treatment stan	adards of 40 CFR 2	268.45." The contaminants subject to treatment pur	suant to 40 CFR 26	8.43(b) are:
	1					1
			<del></del> .			
<del></del>		C	ERTIFIC	CATIONS		
	IDIX IV LAB PACK (ORGANOMETAL			2 APPENDIX V LAB PACK (ORGA		
	er penalty of law that I personally examined an ack contains only the wastes specified in Apper			"I certify under penalty of law that I persona through analysis and testing or thorough kr	nowledge of the t	waste and that the lab pa
not subject t	to regulation under 40 CFR part 261, I am a	ware that there a	ire significant	contains only organic wastes specified in App	endlx V to part 26	8 or solid wastes not subje
ment.	submitting a false certification, including the	possibility of fine	or imprison-	to regulation under 40 CFR part 261. I am a submitting a false certification, including the	possibility of fin	e or Imprisonment."
Signature	Da	ie	<del></del>	Signature	Date .	
_						
	E MEETING TREATMENT STANDARD		udih ihaada ih	rough analysis and testing or thorough knowle	dae of the waste t	o support this certification
that the waste	e complies with the treatment standards speci	fied in 40 CFR part	268 Subpart D a	nd all applicable prohibitions set forth in 40 CFF	R 268.32 or RCR/	\ section 3004(d). I believe
that the infor		nplete. I am aware	that there are s	ignificant penalties for submitting a false certi	ification, includin	g the possibility of line or
erd i marinina						
Signature	Da	ite				
4 FORM	CERTIFICATION					
		ove and attach	ed is comple	ete and accurate to the best of my kno	wiedge and ab	ility to determine that
	ons or emors exist."	oro, una allacii	ou, is comple			,
=	HIL MYE	1		lan Man	7 Mi	
NAME	ITIC INTE	·	TITI	LE HAZ MAT	1 1.00	
	$\mathcal{Q} \mathcal{O}_{\alpha}$			6-77-911		
SIGNATUR	EX_ PWY/V	Y-	DAT	E 300 11		
		-			MOR 00	0489

- (Initial Waste Generator Only) -

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

	5055 #1401 PU91									
STREAM NO.L 515	7 MANIFEST	NO. L-IL48	67776	Line No. 🔀 11a		☐ 11d				
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number	used to identify the wa	ste, as applicable, by c	ompleting blocks and	checking (🗸) boxes.				
1- U.S. EPA Waste Number:	D001			·						
2- Subcategery:	Ign. Liq. High TOC									
3-Treatability Group:  - Wastewater  - Non-Wastewater	□ ⊠									
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment	0	<u>a</u>	0	0	0	0				
5. This waste is subject to a treatment standard under 40 CFR 268.42(a): (Include Technology Codes)	SUBSINCIN RORGS	<u></u>								
6. This waste is subject to a treatment standard under 40 CFR 258.42(a) for wastes containing >1,000 ppm Appendix III HOCs for which specific treatment standards de not apply: (INCIN)										
7. This waste is subject to a treatment standard under 40 CFR 258.43(a);  • Waste Requires Treatment  • Waste Does Not Require Treatment	0	0	0	0		0				
8. This waste is subject to a prohibition under 46 CFR 266.32(a) or RCRA Sec. 3004(d): (California List prohibitions)										
S. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(a): (INCIN)  • Appendix IV (organometallic lab pack)  • Appendix Y (organic lab pack)										
10. This waste is bazardous debris subject to the alternative ireatment standard under 40 CFR 268.45(a):	0									
11_(Reserved)										
12. This waste is subject to an examption from treatment under:  a national capacity variance  a Case-by-case extension  (reserved)	000	0	0	0	0	000				
The exemption expires on:										
ADDITIONAL REQUIREMENTS	Check all that apply, an	d follow lastructions.								
☐ FD01-FD05 SPENT SOLVENT (Complete Complete Co	ertification 🚺 ) 🗆		X (Complete Certifica	tion 🔃 ) 🔲 FO39 (Atta	JS DEBRIS (Complete ch constituent list)	Table 3)				
					This page is a contin	ualion sheet.				

(211) 702 0101

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610 EPA Form 8700-22 (Rev. 6-89) PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039, Expi 1. Generator's US EPA ID No. Manifest 2. Page 1 Information in the shaded areas is not required by Federal law, but is required by UNIFORM HAZARDOUS 905<u>85</u> **WASTE MANIFEST** ILD025415266 Illinois law A. Illinois Manifest Document Number FEE PAID IF APPLIC Location If Different 3. Generator's Name and Mailing Address q Morey Corp. IF APPLICABLE B. Illinois 2659 Wisconsin Ave., Downers Grove, IL Generato 1 ID-12-2-3 14110305029 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 708-964-2300 US EPA ID Number C. Illinois Transporter's ID 5. Transporter 1 Company Name DAGOBS / ESES Transporte Eleganting page : 17 Environmental Waste Services ILD984916197 E (708) 68-62/7 indepoter a Prone US EPA ID Number 7. Transporter 2 Company Name Ozinga Transportation Systems <u>ILD</u>982067175 Illinois 9. Designated Facility Name and Site Address US EPA ID Number LADIO COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA COLLEGIO DE LA Clayton Chemical Co. l Mobile Ave. Sauget, IL ILD06691832 62201 12. Containers 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Emergency Туре Quantity No. ₩t∕Vo RQ Waste Flammable Liquid, N.O.S. (Aliphatic And Aromatic Hydrocarbons) UN1993 PG II (D001) E b Response A 0 a 217/ d. 782-7860 K. Handling Codes for Wastes Listed Above in Item 14 ional Description for Materials Listed Above for and # e National Hesponse Center 15. Special Handling Instructions and Additional Information Emergency Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date Printed/Typed Name 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Signature Da 424-8802 Date 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Year Signatury or 202 / 426-26 080194 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except a Date Month Day Printed Typed Name Signature Yea

PLE	ASE TYPE (Form designed for use on elite (12			0-22 (Rev. 6-89)	Form A	pproved. OMB No	. 2050-0039. Expires 9-30-
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EF ILD02541!		Manifest Document No. 65496	2. Pa	required	ion in the shaded areas is no by Federal law, but is required is law.
$\prod$	Generator's Name and Mailing Address	Location If	Different		為。		
11.	Morey Corp.						
<b>   </b>	2659 Wisconsin Ave.,	Downers Gro	ove. IL	60515			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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ון <u>ו</u>	5. Transporter 1 Company Name	6.	US EPA ID N		40.00		1.76
Ш	Environmental Waste Se	ervices	ILD9849	16197	1		12.54
11.	7. Transporter 2 Company Name	8.	US EPA ID N				
Ш	Ozinga Transportation	Systems	ILD9820	67175			***
	9. Designated Facility Name and Site Address	10.	US EPA ID N				
Ш	Clayton Chemical Co.						10 1 × 102 (1) (1)
Ш	1 Mobile Ave.				1.7		
	Sauget, IL 62201	1	ILD0669	18327		7.50	+x+0-0557
Ш	11. US DOT Description (Including Proper Ship	ping Name, Hazard Cla			ainers	13.	14. Unit
				No.	Туре	Total Quantity	Unit Wt/Volum
G	a RQ Waste Flammable Li	quid, N.O.S					
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	15. Special Handling Instructions and Additional	Information					V value of the second of the
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$\parallel \parallel$	<b>Emergency Contact</b>	# 708-964-2	300				
Ш							
	16. GENERATOR'S CERTIFICATION: Thereby de						
$\ \cdot\ $	proper shipping name and are classified, packed, r according to applicable international and national of		re in all respects in p	proper condition for	transport	by highway	
$\parallel \parallel$	If I am a large quantity generator, I certify that I i sconomically practicable and that I have selected	nave a program in place to					
	future threat to human health and the environmen	rt; OŘ, if I am a small que	ntity generator, I have				ste generation and select
11	the best waste management method that is available	one to me and that I can aff					Date Day Yes
IJ	Printed/Typed Name	- MYER	Signature	~ _ M			Month Day Year
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Ŗ	17. Transporter 1 Acknowledgement of Receipt Printed/Typed Name	of Materials	Signature	<u> </u>			Month Day Year
RAZ	TUMAS LACKE		Signature	romal P.	s h si	VY	つるってす
S I	18 Transporter 2 Askrauladeament of Passint	of Matorials	<u> </u>		~~~	<del></del>	Date
Q R T	<ol> <li>Transporter 2 Acknowledgement of Receipt Printed/Typed Name</li> </ol>	UI NIGLETIALS	Signature/			- <b>V</b>	Mogth Day Year
ER	LARRY COMBS	/	TROM		1		762391
_	19. Discrepancy Indication Space		10000	- Lon	<u></u>		
F	to. Descripting indication opace			ţ			,
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-	20. Facility Owner or Operator Certification of	eceipt of hazardous me	aterials devered by	y this manifest 🗗	at as	noted in item 1	Date
Ţ	Printed/Typed Name	11	Signature	1	ナコ	alh 1	Month Day Year
	SI KOOTIOKH	$\gamma$		nm T	1 NI	JUNU	U CASTAL
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5	18. Transporter 2 Acknowledgement of Receipt of	of Materials	<i>V</i>		<del>~                                    </del>		╼╗╵╵╬	Date
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	19. Discrepancy Indication Space			•				
	JAN -3 5	3545						
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, [	20. Facility Owner or Operator: Certification of re	celor of hazardous		y this manifest exc	cept as noted	in item 19.	Month L	Dav Year
	Printed/Typed Name	0.25	Signature		Ш.		I A A	1,94
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- (Initial Waste Generator Only) -

I am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME MOT											
EWR STREAM NO.L 21226	MANIFEST	NO. LIL63	85319	Line No. 🔯 11a	□11b □11c	□ 11d					
PROHIBITIONS AND RESTRICTIONS	Complete a column f	or each waste number	used to Identify the wa	ste, as applicable, by c	ompleting blocks and	checking (🗸) boxes.					
1. U.S. EPA Waste Number:	D001										
1a. Fermer USEPA Waste Numbers: (II proviously treated to remove bazzardous characteristic)		,									
2.Subcategory:	High TOC Ign. Liq.										
3. Treatability Group:  • Wastewater  • Non-Wastewater											
4. Fer F001-F005, D001 (DEACT enly), and D012-D043 wastes, list all hazardous constituents.											
5. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing =1,000 ppm Appendix 80 HOCs for which specific treatment standards do not apply: (CMRST)											
6. This waste is subject to a treatment standard under 40 CFR 258.40; • Waste Requires Treatment • Waste Does Not Require Treatment	<u> </u>										
7. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (California List prohibitions)											
8. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(c).											
9. This waste is hazardous debris subject to 40 CFR 268.45. (over 50% of waste is debris)											
10. This waste is subject to an exemption from treatment under:  a national capacity variance  a Case-by-case extension  40CFR258.6	000		0	000							
The exemption expires esc											
ADDITIONAL REQUIREMENTS	Check all that apply, a	ad follow instructions.									
APPENDIX IV LAB PACK (Complete C WASTE MEETS A TREATMENT STAND PRESENT OR FORMER DOOT, DOOZ (	DARD, AS INDICATED A DR 0012-0043 WASTE	BOVE IN ROW 6. (Con	plete Certification 3		US DEBRIS (Complete	Table 3)					
FORMER DOO1, DOO2 OR DO12-DO43 WHICH DO NOT MEET UNIVERSAL TR		S (complete Certificati	on <b>2</b> )		This page is a conti	nuation sheet.					

CONSTITUENT	CONCENTRATION	CONSTITUENT	CONCENTRATION	CONSTITUENT CONCENTRAT	TION
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TABLE 3 — HAZARI This bazard		re treatment standards of 40 CFR	268.45." The contaminants subject to	to treatment pursuant to 40 CFR 268.45(b) are:	
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		CERTIFIC	CATIONS		
and that the lab pack contains IV to part 268 or solid wastes	w that I personally examined and sonly the wastes that have not bee sonot subject to regulation under 4 senalties for submitting a false conment.	en excluded under Appendix 40 CFR part 261, I am aware	requirements of 40 CFR 268.401 waste contains underlying hazi universal treatment standard:	c or D012-D043 WASTES  w that the waste has been treated in accordance will to remove the hazardous characteristic. This decharact rardous constituents that require further treatment to is. I am aware that there are significant penaltien, including the possibility of fine or imprisonment."	terized o meet ies for
Signature	Date		Signature	Date	<u> </u>
"I certify under penalty of lar certification that the waste or	compiles with the treatment stand information I submitted is true, ac	ned and am familiar with the widerds specified in 40 CFR part :	268 Subpart D and all applicable	ing or thorough knowledge of the waste to support e prohibitions set forth in 40 CFR 268.32 or RCRA sec enalties for submitting a false certification, including	ction
Signature	Date .				
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4 FORM CERTIFICA			4 4 AL AL A	· · · · · · · · · · · · · · · · · · ·	
	information supplied abov	ve, and attached, is con	1.	best of my knowledge and ability to determ	nine
Thereby certify that all	information supplied abov	$\mathcal{A}_{\mathcal{L}}$	1.	best of my knowledge and ability to determ	nine -

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610

<b>V</b>	TYPE (Form designed for use on elite (1	2-pitch) typewnier.)	EPA Form 8	3700-22 (Re	v. 6-89)	Form /	Approved. OME	3 No. 2050	-0039 Expires 9	9-30
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	enerator's Name and Mailing Address	Location If	Different		2199					
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	EWR Inc.							s at fl	\$15 to 14\$1.	
	2390 S. Broadway St.			<del>14777</del>		1. 1. 1.	<u> </u>			
11. U	S DOT Description (Including Proper Shi	pping Name, Hazard Cla	ess, and ID Nu	ımtber′) ° '	12. Conta No.	iners Type	13. Total Quantity	7.3 74. Unit Wt/Vo		
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This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Faiture to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

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For nonhazardous special westes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Itlinois). (J,K) If needed, enter additional description or information/instructions by the assental listed in item 11. 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- (Initial Waste Generator Only) -

I am supplying this notice and certification to Environmental Waste Resources, Inc. in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on lend disposal for this material.

GENERATOR'S NAME   Mor	ey Corp.			D. NUMBER LILL		
EWR STREAM NO.L	MANIFEST	NO. LILY81	05168	Line No. 🔀 11a	□11b □11c	☐ 11d
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number i	used to identify the wa	ste, as applicable, by c	ompleting blocks and	checking (🗸) boxes.
1. U.S. EPA Weste Humber:	D001					
2. Subcategory:	Ign. Liq. High TOC					
3- Treatability Group:  • Wastewater • Non-Wastewater	, ם					
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Dees Not Require Treatment						
5. This waste is subject to a treatment standard under 40 CFR 258.42(a): (Include Technology Codes)	FSUBSINCIN RORGS					
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (INCIN)		-				
7. This waste is subject to a treatment standard under 40 CFR 268.43(a):  • Waste Requires Treatment  • Waste Dees Net Require Treatment						
8. This waste is subject to a prohibition under 40 CFR 258.32(a) or RCRA Soc. 3004(d): (California List prohibitions)						
9. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(a): (INCIN)  Appendix IV (organometallic lab pack)  Appendix V (organic lab pack)						ļ
10. This waste is hazardous debris subject to the alternative treatment standard under 40 CFR 268.45(a);						
11.(Reserved)						
12. This waste is subject to an exemption from treatment under:  a national capacity variance  a Case-by-case extension  (reserved)	000					000
The exemption expires on:						
ADDITIONAL REQUIREMENTS	Check all that apply, as	é fellew jastroctions.				
F001-F005 SPENT SOLVENT (Complete C APPENDIX IV LAB PACK (Complete C WASTE MEETS A TREATMENT STANC D001 OR D002 WASTE WITH F039 C	ertification (1) (1) DARD, AS INDICATED A	APPENDIX V LAB PAG BOVE IN ROW 4 OR 7.	CK (Complete Certifica (Complete Certificati	nlion 🛂 } 🔲 F039 (Atta on 🛂 )	US DEBRIS (Complete ach constituent (ist)	Table 3)
			· ·		] This page is a conti	nuation sheet.

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TABLE	1 — F001, F002, F003, F004, F005					
	- CONSTITUENT	WASTEWATERS I	ION-WASTEWATERS Mg/ -	CONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS mg/L
	Carbon disulfide	NA NA	4.8	Made and	NA NA	
268.41(a)	Cydohexonone	l M	0.75	Methanol	, na	0.75
` `		100	0.75	l <u></u>		<u> </u>
	2-Ethoxyethanol	BIODG; or INCIN.	INDN.	2-Nitropropone	(WETOX or CHOXD) Th CARBN; or INCIN	INDNL
268.42(a)					I I OASH, OF INCH	
	Acetone	0.28	160	Methylene chloride	0.44	NA
	Benzene	0.070	3.7	(Pharmacoutical industry		i i
	n-Butyl alcohol	5.6 0.014	2.6 NA	wastewater sub-category) Methyl ethyl ketone	0,28	2,
	Carbon tetrochloride	0.057	5.6	Methyl isobutyl ketene	0.2 <b>.</b> 0.14	34 33
	Chlorobenzene	0.057	5.7	Nitrobenzene	0.068	14
	Gresols (m and p-isomers)	0.77	3.2	Pyridine	0.014	16
268.43(a)	o-Cresol	0.11	5.6	Tetrachiloroethylene	0.056	5.6
	Cydohexanone	0.36	NA.	Toluene	0.08	28
	1,2-Dichlorobenzene	0.08 <b>8</b> 0.34	6.2 33.	1,1,1-Trichloroethane	0.054 0.030	5.6 7.6
	Ethyl benzene	0.057	6.0	1,1,2-Trichlore-1,2,2,-Trifluorethane	0.030	28
	Ethyl other	0.12	160		0.054	5.6
	kebutanel	5.6	170	Trichlor of luor omethans	0.02	33
	Methanol	5.6	NA	Xylene (Total)	0.32	28
	Methylene chloride	0.089	33			
TABLE 2	_ "CALIFORNIA LIST" PROHIB	ITIONS				
	_		- 100 0011 2011	and the shall arried to the		
□ 230 M	PM PCBs (liquid) □ ≥ 134 PPM NICKE	L (liquid) L	≥ 130 PPM THAL	LIUM (liquid) 🗌 OTHER (Specify)		
□ ≥ 1,000	DPPM but < 10,000 PPM Appendix III HOCs and pri	marily water. (Only	for wastes with n	o specific Subpart D HOC Treatment Standard)		
	•					
TABLE 3	— HAZARDOUS DEBRIS					
		ative treatment stan	dards of 40 CFR 2	68.45." The contaminants subject to treatment purs	want to 40 CFR 268	3.45(b) are:
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APPEN	IDIX IV LAB PACK (ORGANOMETAL	LIC)		2 APPENDIX V LAB PACK (ORGAI		
Ticertify und	er penalty of law that I personally examined and ack contains only the wastes specified in Appen	d am familiar with I	the waste and	I certify under penalty of law that I personal through analysis and testing or thorough kn	ly examined and	am familiar with the was
not subject	to regulation under 40 CFR part 261. I am a	ware that there a	re significant	contains only organic wastes specified in Appr	endix V to part 268	or solid wastes not subje
penalties for	submitting a false certification, including the	possibility of fine	or imprison-	to regulation under 40 CFR part 261. I am a	ware that there a	ire significant penalties f
ment."				submitting a false certification, including the	possibility of fine	or imprisonment."
Signature	Da	le	<del></del>	Signature	Date _	
3 WASTI	E MEETING TREATMENT STANDARD	(S)				
"I certify und	er penalty of law that I personally have examine	d and am familiar	with the waste th	rough analysis and testing or thorough knowle	ige of the waste to	support this certification
that the wast	te complies with the treatment standards speci rmation I submitted is true, accurate and com	fied in 40 CFR part	268 Subpart D a	nd all applicable prohibitions set forth in 40 CFF	l 268.32 or RCRA	section 3004(d). I believe
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	ertify that all information supplied abo	ove, and attach	ed, is comple	te and accurate to the dest of my know	weage and ab	my to determine that
no omissi	ons or errors exist."					
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authorized to require, pursuant to littinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Fatelfication of this information may result in a fine up to \$50,000 in and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

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# NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL — (Initial Waste Generator Only) —

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material

	od Bolon tilo appropri	ate management rec	dange to comply with	tio profibitions of t		
GENERATOR'S NAME   Mor	ey Corp. 7   MANIFEST	NO. LIL 62		D. NUMBER II LLI		
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	r each waste number t	reed to identify the war	ste, as applicable, by c	ompleting blocks and o	checking (🗸) boxes.
1. U.S. EPA Waste Number:	D001					
2. Subcategory:	Ign. Liq. High TOC					
3- Treatability Group: • Wastewater • Non-Wastewater						
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment	00	0	0		0	0
5. This waste is subject to a treatment standard under 40 CFR 268.42(a): (include Technology Codes)	SUBSINCIN RORGS			·		
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix in HOCs for which specific treatment standards do not apply: (INCIN)	0					
7. This waste is subject to a treatment standard under 40 CFR 268,43(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment	0	0	<u> </u>			0
8. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (California List prohibitions)						
9. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(a): (INCIN)  Appendix IV (organometallic lab pack)  Appendix V (organic lab pack)						
10. This waste is hazardous debris subject to the alternative treatment standard under 40 CFR 268.45(a):						
11.(Reserved)						
12. This waste is subject to an exemption from treatment under:  a national capacity variance  a Case-by-case extension  (reserved)	00	0		00	0 0	000
The exemption expires esc					•	
ADDITIONAL REQUIREMENTS	Check all that apply, an	d follow instructions.				
☐ FDD1-FDD5 SPENT SOLVENT (Comple ☐ APPENDIX IV LAB PACK (Complete Complete  ertification 🚺 ) 🔲		K (Complete Certifical	tion 🔼 ) 📋 FO39 (Atta	US DEBRIS (Complete ch constituent list)	Table 3)	
	_				This page is a contin	uation sheet.

TABLE	1 — F001, F002, F003, F004, F005	SPENT SOI	LVENT WAS	TES		
	CONSTITUENT	WASTEWATERS I	HON-WASTEWATERS MB/L	CONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS mg/L
İ	Carbon disulfide	NA.	4.8	Methanol	NA.	0.75
268.41(a)	Cydohexonone	NA NA	0.75	<u> </u>	<u> </u>	
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INON.	2-Nitrópropane	(WETOX or CHOXD)	INON.
1	Acetone	0.28	160	Methylene chloride	0.44	NA.
1	Benzene	0.070	3.7	(Pharmaceutical industry		] ]
1	n-Butyl skohol	5.6 0.014	2.6 NA	wastewater sub-category) Methyl ethyl ketone	0.28	36
	Carbon disulfide	0.057	5.6	Methyl isobutyl ketone	0.14	33
1	Chlorobenzene	0.057	5.7	Nitrobenzene	0.068	14
268.43(a)	Cresols (m and p-isomers)	0.77	3.2	Pyridine	0.014	16
200.0(4)	o-Cresol Cyclohexanone	0.11 0.36	5.6 NA	Tetrachloroethylene	0.056 0.08	5.6 28
1	1,2-Dichlorobenzene	0.088	6.2	1,1,1-Trichloroethane	0.054	5.6
	Ethyl acetate	0.34	33.	1,1,2-Trichloroethane	0.030	7.6
	Ethyl benzene		6.0	1,1,2-Trichloro-1,2,2,-Trifluorethane Trichloroethylene	0.057	28
		0.12 5.6	160 170	Trichlorofluoromethane	0.054 0.02	5.6 33
	Methanol	5.6		Xylene (Total)	0.32	28
j	Methylene chloride	0.089	33			
≥ 1,000	M PCBs (liquid) □ ≥ 134 PPM MICKEI  PPM but< 10,000 PPM Appendix III HOCs and pri  — HAZARDOUS DEBRIS  This hazardous debris is subject to the altern	marily water. (Only	for wastes with no	IUM (liquid)		3.45(b) are:
- ** /		CI	ERTIFIC	ATIONS	<del></del> 4	
T certify unde that the lab pa- not subject to	DIX IV LAB PACK (ORGANOMETAL)  If penalty of law that I personally examined and ck contains only the wastes specified in Appen or regulation under 40 CFR part 261. I am a submitting a false certification, including the	d am familiar with I dix IV to part 268 or ware that there a	the waste and r solid wastes re significant or imprison-	APPENDIX V LAB PACK (ORGAN "I certify under penalty of law that I personal through analysis and testing or thorough kno contains only organic wastes specified in Appe to regulation under 40 CFR part 261. I am as submitting a false certification, including the p	y examined and owiedge of the w ndix V to part 268 ware that there a	raste and that the lab pac for solid wastes not subject the significant penalties for
Signature	Da	te	<del></del>	Signature	Date _	
"I certify under that the waste that the infor- imprisonment	complies with the treatment standards specification is submitted is true, accurate and combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combined to the combine	d and am familiar v ied in 40 CFR part iplete. I am aware	268 Subpart D an that there are sig	ough analysis and testing or thorough knowled of all applicable prohibitions set forth in 40 CFR gnificant penaities for submitting a false certif	268.32 or RCRA	section 3004(d). I believe
Signature	Oa	ie				
4 FORM	CERTIFICATION					
1 hereby ce	rtify that all information supplied abo	ove, and attach	ed, is complet	e and accurate to the best of my know	rledge and abi	lity to determine that
	ns or errors exist."	i>		E HAZ MAT  [E 11:16.94]	NLE	) 
NAME	THIC MILE	<u> </u>	TITL	11/01/	INOL	
SIGNATURE	X HUD IN	0	DATE	1 10.17	MOR 00	0506

PL	LEASE TYPE (Form designed for use on elite (12-p	itch) typewriter.) EPA Forn	1 8700-22 (Rev. 6-89)	Form Approved OMB I	No. 2050-0039. Expires 9-30-94
4	UNIFORM HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	Manifest Document No.	2. Page 1 Inform	nation in the shaded areas is not ed by Federal law, but is required nois law.
$\ $	3. Generator's Name and Mailing Address	Location If Different	<del>- 1 55392 -</del>		TOS ISW.
11	Morey Corp.				
	4. 24 HOUR EMERGENCY AND SPILL ASSIST	owners Grove, 11	60513		
$\ $	5. Transporter 1 Company Name	6. 708 96	1D Number	ander business	
П	Environmental Waste So	cvicos   Ilpus	4916197		
H	7. Transporter 2 Company Name	1	ID Number		
	Ozinga Transportation  9. Designated Facility Name and Site Address	73 toma 1 11. US ÉPA	2067175 ID Number		, y , v , v , v , v , v , v , v , v , v
11	Clayton Chemical Co.				CARSTONESSA
П	1 Mobile Ave.	1	<u> </u>	Service Francisco	
П	11. US DOT Description (Including Proper Shippi				74. Unit
G	a 200 March 121		No.	Type Quantity	Wi/Vol
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NE	1 2 1811002 50 77 757	o Hydrodarbons) 1011	0.0.1	0005F	
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	•				
	15. Special Handling Instructions and Additional Ir	formation	·		
1	Emarcian Cunta	ct # 708-964-2300	1		ł
	biner garage conta	CE # 700-304-2300	,		
	16. GENERATOR'S CERTIFICATION: I hereby dec proper shipping name and are classified, packed, ma	dare that the contents of this consignmented and labeled and are in all respec	ent are fully and accurate	by described above by	
	according to applicable international and national go	vernment regulations.			ree I have determined to be
1	economically practicable and that I have selected to future threat to human health and the environment;	he practicable method of treatment, st	orage, or disposal curren	tly available to me which	minimizes the present and
1	the best waste management method that is available Printed/Typed Name	to me and that I can afford.		<del></del>	Month Day Year
╁	Filliteu/Typed Name	Signature			
T	17. Transporter 1 Acknowledgement of Receipt of	f Materials			Date
Ä	Printed/Typed Name	Signature	TRANCE .		Month Day Year
PO	18. Transporter 2 Acknowledgement of Receipt o	f Materials	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Date
TRANSPORTER	Printed/Typed Name	Signature	<del></del>		Month Day Year
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F	19. Discrepancy Indication Space				
A C					
7			- 1 A - 10 A - 10 A - 10		10 Data
† Y	20. Facility Owner or Operator: Certification of re- Printed/Typed Name	ceipt of hazardous materials cover Signature	ed by this manifest ex	cept as noted in item	19. Date  Month Day Year
•	1				

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111. 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Faisification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

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INSTRUCTIONS TO C	GENERALORS.	
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(e.g. 00001) by the gener		
(2) Enter total numb	per of pages complete to the Mediant	
(3) Enter generator's	name and moths	these motor Leaning to the right
of mailing address.		
(4) Enter telephone t	tumber where an a second of the post-	may be mached in the event of an
emergency.	A THE STREET	•
(B) Enter the general	tor's Illinois EPA ien own menufication and	(VIIV modes) Hippi FPA four digit Special
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For international content storage, or disposal outside the response of disposal outside the storage, or disposal outside the storage, or disposal outside the storage of highway is used, an addition to highway is used, an addition to highway is used, and accepts the storage of the stransporter must acknowledge to the storage of manier to the stransporter must acknowledge to the storage of manier to the stransporter must acknowledge to the delivery.  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the delivery.**  **International Companies of the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter must acknowledge to the stransporter m

TABLE	<u>1 — F001, F002, F003, F004, F005</u>	SPENT SO	LVENT WAS	TES		
	EONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS Mg/L	CONSTITUENT	WASTEWATERS mg/L	RON-WASTEWATERS mg/L
268.41(a)	Carbon disulfide	KA NA	4.8 0.75	Methanol	KA	0.75
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INCIN.	2-Nitropropane	(WETOX or CHOXD) 16 CARBN; or INCIN	INCIN.
268.43(2)	Acetone Benzene n-Butyl akohol Carbon disulfide Carbon tetrachloride Chlorobenzene Cresols (m and p-isomers) o-Cresol (yclohexanone 1,2-Dichlorobenzene Ethyl acetate Ethyl benzene Ethyl ether kobutonol Methonol Methylene chloride	0.28 0.070 5.6 0.014 0.057 0.057 0.77 0.11 0.36 0.088 0.34 0.057 0.12 5.6 0.089	160 3.7 2.6 NA 5.6 5.7 3.2 5.6 NA 6.2 33. 6.0 160 170 NA	Methylene chloride (Pharmaceutical industry wastewater sub-category) Methyl ethyl ketone Methyl isobutyl ketone Nitrobenzene Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichloroethylene Trichlorofluoromethane Xylene (Total)	0.44 0.28 0.14 0.068 0.014 0.056 0.08 0.054 0.030 0.057 0.054 0.02 0.32	NA  36 33 14 16 5.6 28 5.6 7.6 28 5.6 33 28
≥ 1,000	PM PCBs (liquid) = 134 PPM NICKEI  PPM but < 10,000 PPM Appendix III HOCs and pri	imarily water. (Onl	ly for wastes with no	LIUM (liquid)	swant to 40 CFR 26	8.45(b) are:
, , , , , , , , , , , , , , , , , , ,	L		EDTIFIC	ATIONS		
"I certify under that the tab par not subject to	IDIX IV LAB PACK (ORGANOMETAL er penalty of law that I personally examined and ack contains only the wastes specified in Appen to regulation under 40 CFR part 261. I am a submitting a false certification, including the	LIC) d am familiar with dix IV to part 268 lware that there	the waste and or solid wastes are significant e or imprison-	2 APPENDIX V LAB PACK (ORGA 'I certify under penalty of law that I persona through analysis and testing or thorough to contains only organic wastes specified in App to regulation under 40 CFR part 261. I am submitting a false certification, including the	itly examined and nowledge of the lendix V to part 26 aware that there	waste and that the lab pac 8 or solid wastes not subjec are significant penalties fo
Signature	Da	te		Signature	Date	
Ticertify und	E MEETING TREATMENT STANDARD er penalty of law that I personally have examine te compiles with the treatment standards speci rmation I submitted is true, accurate and con nt."	ed and am familiar	t 268 Subpart D ai	nd all applicable prohibitions set forth in 40 CF	R 268.32 or RCR/	l section 3004(d). I believe
Signature	0	ate	<del></del>			
4 FORM	CERTIFICATION	<del></del>				
1 hereby c	ertify that all information supplied abo ons or errors exist."	ove, and attacl	hed, is comple	te and accurate to the best of my kno	wiedge and at	oility to determine that
NAME		- <del></del>		£		
SIGNATUR	RE X		DAT	4 27 94		
				•	MOR 00	0509

## NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL — (Initial Waste Generator Only) —

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material

by this nouncation. I have also indicate	ad below the appropr	ate management re	quired to compry with	the prombitions on i	and disposal for this	matenar.
GENERATOR'S NAME 1 Mor	ey Corp.	NO. LILY8		D. NUMBER ILLL	D  0  2  5 <b>4</b>   1   11b   11c	
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	r each waste number	used to identify the wa	ste, as applicable, by c	ompleting blocks and c	hecking (/) boxes.
1. U.S. EPA Waste Number:	D001					
2. Subcalegory:	Ign. Liq. High TOC		/			
3-Treatability Group:  Wastowater  Non-Wastewater	□ ⊠		(			
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment		: :		0	0	0
statutate annat an ern 200'astal	SUBSINCIN RORGS					
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (IMCIN)						
7. This waste is subject to a treatment standard under 40 CFR 268.43(a):  • Waste Requires Treatment • Waste Does Not Require Treatment		00			0	
8. This waste is subject to a prohibition under 40 CFR 266.32(a) or RCRA Sec. 3064(d): (California List prohibitions)						
9. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(a): (INCIN)  Appendix IV (organometallic lab pack)  Appendix V (organic lab pack)						
D. This waste is hazardous debris subject to the alternative treatment standard under 48 CFR 268.45(a):	0					
11.(Reserved)						
2.This waste is subject to an exemption from treatment under:  • a national capacity variance  • a Case-by-case extension  • (reserved)	0	0	000	000	0	000
The exemption expires on:						
ADDITIONAL REQUIREMENTS	Check all that apply, and	follow lastructions.				
☐ FD01-FD05 SPENT SOLVENT (Comple ☐ APPENDIX IV LAB PACK (Complete Ce ☐ WASTE MEETS A TREATMENT STAND	rtification 🚺 ) 🛘		K (Complete Certificat	ion 🔁 ) 🖂 FO39 (Attac	S DEBRIS (Complete T th constituent list)	able 3)
					This page is a continu	ation sheet.

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

11	UNIFORM HAZARDOUS 1. Generator's US E WASTE MANIFEST	į (	Manifest Document No.	i	require	ation in the shaded areas ed by Federal law, but is re
11		f Different	65281	S THE	Dy Hall	ois law.
11	1	Different				
Н	Morey Corp.	*2 200			rigina di Aragonia. Tan	
П	2659 Wisdonsin Ave., Downers Gr 4.124 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS1	ive, 15 hub 				
11	5. Transporter 1 Company Name 6.	US EPA ID Numb		i	63: N - 37 -	1
П	Environmental Waste Services	7LD984916	197			
П	7. Transporter 2 Company Name 8.	US EPA ID Numb	er			•
H	Ozinga Fransportation Systems	11.0982067	175			
Н	Designated Facility Name and Site Address	US EPA ID Numb	er			
	Clayton Chemical Co.					4,186,11.19
	l Mobile Ave.					
1	Sauget. IL 62201			进速		ALL CALCULATION
	11. US DOT Description (Including Proper Shipping Name, Hazard C	lass, and ID Number)	12. Cont		13. Total	14. Unit
G			No.	Туре	Quantity	Wi/Vol
E	a RQ Waste Flammable Liquid, N.O			1 1	*	
N	(Aliphatic And Aromatic Hydroca	roons)	$ \infty $	]	ONAGE	- (4)
E	3 UN1993 PG II (D001)		<u> </u>	1,24		
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	15. Special Handling Instructions and Additional Information					· · · · · · · · · · · · · · · · · · ·
	Emergency Co	ntact # 708-	-9,64-23	100		
	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of	of this consignment are fully	y and accurate	ly descr	ibed above by	
				transpor	t by highway	
	proper shipping name and are classified, packed, marked, and labeled, and	are in all respects in proper	r condition for			
	proper shipping name and are classified, packed, marked, and labeled, and according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place!	are in all respects in proper to reduce the volume and	toxicity of war			
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This Agency is authorized to require, pursuant to llinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be authorited to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Failsrification of this information may result in a time up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Market Control Control 13 costs of treated or reclaimed in Minors; and the action of the control of the bank of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro Medical Wascong occurs, and a complete photography argument administration. Forth our quires copies of the manifest, a INSTRUCTIONS TO GENERATORS Enter generator's CSEPA twelve-Long to withis Munifest (e.g. 00001) by the generator. Enter total number of pages compositions is Manufact (2) Enter gener. Wr's name and caulta An expense wion to the right (3) of mailing address. (4) Enter telephone number where any considerable in the year. may be reached in the event of an emergency. (B) Enter the generator's Elinois FPA ten could mention acron to the exand the same of the FPA four digit Special (5,6,C,D) For the first transporter who Waste Hauling (SWH) permit number a and the man bay be reached in the event of an emergency. (7.8,E,F) If applicable, enter the infein the waster if more than two transporters are used as a second marks along to Section 15 confidence and on outdine of standess Number xxxxxxx." from Section  $(A_{k+1}, A_{k+1}, \ldots, A_{k+1}, A_{k+1})$ (9.10,G.H)or the series and against facility code number. (11) Enter in 49 CFR 1 interface each waste as identified . • . . and the generic name of the care a provide provide one decion a shiphart complete a second manil (12)Enter CM = Met: CW = Women men CF = Fib.: Buri . BA DT = Den TC = Lan ... on drividals in fractions. and advances, onter pounds, tons or kilograms in Section J. Enter the EPA A Ogla framed at Where Star been to give a second of the most be entered - other numbers should be fisced in bection 4. For nonlineardous special works, about 1828 A. Erset the Illinois EPA six digit waste stream permit (authorization) member for the wisce stream (these members are specific thanks stream and companies, and are obtained from the receiving facility) (feave blard, for waste complete of Hilliams). (J.K) If needed, but a deline we executive on laboure up to the consecutive of namenal lined in item 11. Care in Second Casting internation. For international 1 ' 1 Just . or get in fisposal outside 43. 14 10. 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INSTRUCTIONS OF HIS REPORT BY gareprisons of the control of the control of the Control 10/12/ 100 5 CHS INSTAULT STORY (19) The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second on room note in Item 19 any significant some or morningly received at the facility. 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TABLE 1 - F001, F002, F003, F004, F005 SPENT SOLVENT WASTES												
	CONSTITUENT	WASTEWATERS >	KON-WASTEWATERS mg/L	CONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS mg/L						
	Carbon disulfide	NA.	4.8	Methanol	NA.	0.75						
268.41(a)	Cydohexonone	NA	0.75			1						
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INCIN.	2-Nitrópropone	(WETOX or CHOXD) Ib CARBN; or INCIN	NDKI.						
	Acetone	0.28	160	Methylene chloride	0.44	HA						
	Benzene	0.070	3.7	(Pharmoceutical industry		l i						
	n-Butyl alcohol	5.6	2.6	wasiewaler sub-category)		1 1						
	Carbon disulfide	0.014 0.057	NA 5.6	Methyl ethyl ketone	0.28 0.14	36						
	Chlorobenzene	0.057	5.7	Nitrobenzene	0.14							
	Cresols (m and p-isomers)	0.77	3.2	Pyridine	0.014	16						
268.43(a)	o-Cresol	0.11	5.6	Tetrochloroethylene	0.056	5.6						
	Cyclohexanone	0.36	, M	Toluene	80.0	28						
	1,2-Dichlorobenzene	0.088	6.2	1,1,1-Trichloroethane	0.054	5.6						
	Ethyl acetate	0.34 0.057	33. 6.0	1,1,2-Trichloroethane	0.030 0.057	7.6 28						
	Ethyl ether	0.037	160	I, 1, 2-17 Crisio 0-1, 2, 2, -17 Unio 0 et incire	0.054	5.6						
		5.6	170	Trichlorofluoromethane	0.02	33						
	Methanol	5.6	NA .	Xylene (Total)	0.32	28						
	Methylene chloride	0.089	33			1						
≥ 50 PPM PCBs (liquid)   ≥ 134 PPM NICKEL (liquid)   ≥ 130 PPM THALLIUM (liquid)   OTHER (Specify)     ≥ 1,000 PPM but < 10,000 PPM Appendix III HOCs and primarily water. (Only for wastes with no specific Subpart D HOC Treatment Standard)  TABLE 3 — HAZARDOUS DEBRIS  This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45. The contaminants subject to treatment pursuant to 40 CFR 268.45(b) are:												
CERTIFICATIONS												
*I certify under penalty of law that I personally examined and am familiar with the waste and that the lab pack contains only the wastes specified in Appendix IV to part 268 or solid wastes not subject to regulation under 40 CFR part 261. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.*  2 APPENDIX V LAB PACK (ORGANIC)  1 certify under penalty of law that I personally examined and am familiar with the waste and that the lab pack contains only including the possibility of the waste and that the lab pack contains only organic wastes specified in Appendix V to part 268 or solid wastes not subject to regulation under 40 CFR part 261. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.*												
Signature	Da	1e	<del></del>	Signature	Date _		<u></u>					
**WASTE MEETING TREATMENT STANDARD(S) **It certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or thorough knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the Information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.*												
Signature	Da	ite										
4 FORM CERTIFICATION												
I hereby certify that all information supplied above, and attached, is complete and accurate to the best of my knowledge and ability to determine that no omissions or errors exist."												
NAME	KHIL MYER	2	TITL	.E								
SIGNATURE X Rund Marie 3-23-94												
		3			MORO	20512						

— (Initial Waste Generator Only) —

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have Indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME   Morey Corp.   GEN. EPA I.D. NUMBER I IL ID 10 12 15 4 12 16 16 1  STREAM NO. 5157   MANIFEST NO. IL LY86528/   Line No. 179 118   110   110   110										
STREAM NO.L 513	/ MANIFEST	NO. L	16 3 80 1	Line No. 11a		11d				
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number t	used to identify the wa	ste, as applicable, by c	ompleting blocks and o	hecking (/) boxes.				
1-U.S. EPA Waste Number:	D001									
2. Subcategory:	Ign. Liq. High TOC									
3-Treatability Group:  • Wastewater  • Non-Wastewater	□ ⊠									
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment			0	0	0	0				
5. This waste is subject to a treatment standard under 40 CFR 268.42(a):	SUBSINCIN									
(include Technology Codes)	RORGS									
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (INCIN)										
7. This waste is subject to a treatment standard under 40 CFR 268.43(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment			0							
8. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (Caltiernia List prohibitions)										
9. This waste is a Lab Pack subject to the alternative treatment standard under 48 CFR 268-A2(a): (INCIM)  • Appendix IV (organometallic lab pack)  • Appendix V (organic lab pack)										
10. This waste is bazardous debris subject to the alternative treatment standard under 40 CFR 268.45(a):										
11.(Reserved)										
12.This waste is subject to an exemption from treatment under:  a national capacity variance  a Case-by-case extension  (reserved)	0	000	0		000	000				
The exemption expires on:			,		·					
ADDITIONAL REQUIREMENTS	Check all that apply, an	d follow instructions.	<u></u>							
□ F001-F005 SPENT SOLVENT (Complete Table 1) □ "CALIFORNIA LIST" (Complete Table 2) □ HAZARDOUS DEBRIS (Complete Table 3) □ APPENDIX IV LAB PACK (Complete Certification 1) □ APPENDIX V LAB PACK (Complete Certification 2) □ F039 (Attach constituent list) □ WASTE MEETS A TREATMENT STANDARD, AS INDICATED ABOVE IN ROW 4 OR 7. (Complete Certification 2)										
☐ This page is a continuation sheet.										

EPA Form 8700-22 (Rev. 6-89) LEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039. Expires 9-30-94 UNIFORM HAZARDOUS 1. Generator's US EPA ID No. Manifest 2. Page 1 Information in the shaded areas is not required by Federal law, but is required by Illinois law. Document No. WASTE MANIFEST <del>65496</del> Location of Different TO PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY 3. Generator's Name and Mailing Address Morey Corp. 2659 Wisconsin Ave Downers Grove, 5. Transporter 1 Company Name Environmental Waste Servi 7. Transporter 2 Company Name 8 Ozinga Transportation Systems, Designated Facility Name and Site Address EPA ID Number Clayton Chemical Co. 1 Mobile Ave. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13. Total Unit Wt/Vol Type Quantity G RQ waste Flammable Liquid, N.O.S. E (Aliphatic And Aromatic Hydrocarbons) 001 N UN1993 PG II (D001) F h R Т G. 0 R ď. 15. Special Handling Instructions and Additional Information Emergency Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Printed/Typed Name Signature Month Day  $A_{i}$ 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Signature Year 61113 Date 18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Month Day Year Signature 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Date Printed/Typed Name Month Day Signature Year

This Agency is authorized to require, pursuant to Minis Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency Faiture to provide this information may result in a civil penalty against title owner or operator not to exceed \$25,000 per day of violation. Faleification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

שמווטילבשת ושווטוושו שניו ביום טיים

But to sope admitteated or reclaimed y me to a PIMW (Potentially Infectious in Illinois and an account of the control of the control of the to to a coquires copies of the munifest, a Medical Vision of process photocopy or part for many security INSTRUCTIONS TO GENERATORS: (1) Enter generator's USEPA twelve communication of the Manifest (e.g. 60001) by the generator Enter total number of pages companies to a strategic (2) or the segment carion to the right (3) Enter generator's name and matter of mailing address. (4) Enter telephone number where an depote of the pro-4. may be reached in the event of an emergency. (B) Enter the generator's Illinois EPA are many inequalication to the (5,6,C,D) For the cirst transporter who See 100 mover Allino's EPA four digit Special Waste Hauling (SWH) permit number a -is the may be reached in the event of an emergency. in the waste. If more than two (7.8,E,F) in applicable enter the into transporters are used tuse a second in muest and in section (2) of the second control of the was longer manifest Number xxxxxxxx from Section (1) value 60 or his feet as EPA ten digit facility (9,10,G,H) code number. (11) Enter in 49 CFR i complete a series of the service of numbers to, each waste as identified the waste and the generic name of the weeks plant the process - are to a shipment complete a second manife (12) Enter CM = Mec CW = Wooden meses CF = Fiber BA = Bur: DT & Die Tank ... (13)as a regular ds or fractions. (14)Hinter and it is sired, since bounds, toos or kilograms in Section 3. Enter the EPA 4 digit Hazardous Waste Number, if waste is a constitution of the factoristic wastes, the listed waste must be entered (I) - other numbers should be listed in Section I. For nonhazardous special wayter, one (Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each was a stream and companies, and are obtained from the receiving facility) (leave blank for waste going our of Illinois). (J.K) If needed enter addition a description or information instructions (*) Le moetial listed in item 11. . 131 mount on a fell of Lading information. 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1	UNIFORM HAZARDOUS WASTE MANIFEST	<ol> <li>Generator's US EPA ID No. ILD025415266</li> </ol>	Manifest Document No. 65168	2. Page 1 ¹⁷ Information required by by Illinois la	in the shaded areas is not Federal law, but is required tw.
Ш	3. Generator's Name and Mailing Address	Location If Different		WE THE TRANSPORT	A CHARLES
$\parallel$	Morey Corp.			4 . L	t b) in success
	2659 Wisconsin Ave., D	owners Grove, IL	60515		
П	4. *24 HOUR EMERGENCY AND SPILL ASSIST	ANCE NUMBERS* 708-964	-2300		N 51177 FT 185
$\parallel$	5. Transporter 1 Company Name	6. US EPA ID	Number		
П	Environmental Waste Se	rvices ILD9849	16197		
$\parallel$	7. Transporter 2 Company Name	8. US EPA ID	Number		
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+	20. Facility Owner or Operator: Certification of re-	ceipt of hazardous materials covered Signature	by this manifest ex	cept as noted in item 19.	Month Day Year
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_	This Agency is authorized to require, pursuant to Minols Revised Str	tute 1989 Charter 111 1/2 Section 1004 and 10	21 that this information h	a submitted to the Agency Failure t	o provide
1	this information may result in a civil penalty against the owner or open day of violation and imprisonment up to 5 years. This form has	perator not to exceed \$25,000 per day of violation	n. Falsification of this info	mation may result in a fine up to \$5	50,000



Environmental Waste Resources P.O. Box 160 Coal City, IL 60416 (815) 634-2211 TWX 910 642 2955

Date: February 11,1994	
Reference · Manifest Number:	IL 4865168
_	

Reference Manifest Date:

Attached you will find the original copy of your Illinois Environmental Protection Agency Manifest in reference to waste material that you shipped to EWR.

2-9-94

Environmental Waste Resources certifies that materials received from the enclosed manifest have entered our treatment process for secondary fuel.

Thank you for allowing us to help you dispose of your waste material within all applicable regulatory and permit requirements.

E.W.R., Inc

Marketing Department

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-5563

Dear Environmental Coordinator:

The enclosed manifest copy was sent to us in error. For hasardous waste shipments, the Illinois Environmental Protection Agency (IEPA) should be sent only the part 5 (green) copy by the company generating the waste, and the part 2 (yellow) copy from the facility accepting the waste. Please familiarize yourself with the below listed distribution information to avoid future problems.

DISTRIBUTION - After the generator and transporter have completed their respective items and have signed the manifest, the generator should pull the bottom two copies prior to releasing the manifested load to the transporter. The generator must keep the part 6 (blue) copy and forward part 5 (green) to the Illinois Environmental Protection Agency within two working days of the load being shipped.

When the designated facility receives the manifested waste, the owner or operator, or authorized representative must sign and date the manifest to certify receipt of the waste described on the manifest. Upon receipt, the transporter shall be given part 4 (gold) of the manifest for their records. Within thirty days of receipt of the waste, the facility must send the part 2 (yellow) copy to the IEPA and the original part 1 (white) copy to the generator. The remaining part 3 (pink) copy must be retained by the facility. All copies must be retained for a minimum of three years by all parties.

For nonhazardous waste shipments, no copies of the manifest shall be sent to the IEPA. Instead an Annual Report must be submitted.

If you have any questions, contact the Bureau of Land's Environmental Information Support Sub-Unit at the above number.

Sincerely,

Michael Walver, Manager

Environmental Information Support Unit

Bureau of Land

FOR SHIPMENT OF HAZARDOUS ON AND SPECIAL WASTE

PL	ASE TYPE (Form designed for used to day to 12-pach)	ter.) EPA Form	8700-22 (Rev. 6-89)	Form Approved	. OMB No. 20	050-0039. Expire	s 9-30-94
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CW = WocCF = Fibe BA = Burl DT = Dun r TC Jank ..... (13) (14) Contractions Enter Enter contain pounds, tons or kilograms in Section J. Enter the EPA didigit Hazardan. Waste Number, if waste last old through the filter wastes, the listed waste must be entered - other numbers should be listed in Section I. For nonhazardous special wastern only Class A. Brin the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for a Chasse stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois). If needed, enter additional description or information finitizations for the austrial listed in item 11. management, a contact and aginformation. For international in a go or disposal outside : ! * . . the reserver of the off highway" the edge conto highway is used, . . . Committee of the second section of the second out of the constant of the SuiPMENT. 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FOR SHIPMENT OF HARDOUS AND SPECIAL WASTE

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Transporter 2 Company Name Okings Transportation	Systems 8.	US EPA ID	67:75	302	(refresorter)			648
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This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be authorized to the Agency. Failure to provide this information may result in a rive penalty against the owner or operator not to exceed \$25,000 per day of violation. Failaffication of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and nonhazardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PIMW (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part 1 should be used.

INSTRUCTIONS TO GENERATORS (Please type)

(1) Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (eg. 00001) by the generator.

(2) Enter total number of pages comprising this Manifest.

- (3) Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- (4) Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.

(B) Enter the generator's Illinois EPA ten digit identification number.

- (5,6,C,D) For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- (7,8,E,F) If applicable, enter the information requested for the second transporter who will transport the waste. If more than two transporters are used, use a second manifest and in Section 15 of the second manifest enter "Continuation of Manifest Number xxxxxxx" (from Section A).

(9,10,G,H) For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.

- (11) Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT." If more than four waste streams are in a shipment, complete a second manifest.
- (12) Enter the number of containers for each waste and the appropriate abbreviations for the type of container:

TP

CMMetal boxes or roll-offs DM Metal drums CW DW Wooden boxes Wooden drums CF DF Fiberboard or plastic boxes Fiberboard or plastic drums Burlap, cloth, paper or plastic bags BA CY Cylinders DT Dump trucks TC Tank cars TT Tank trucks

Enter the total quantity (gallons or cubic yards) of each waste; round to nearest whole number, do not use decimals or fractions.

(14) Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.

Tanks portable

(I) Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered - other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).

(J,K) If needed, enter additional description or information/instructions for the material listed in item 11.

- (15) If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment, storage, or disposal outside the jurisdiction of the United States in this space.
- (16) The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: (17,18) The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt. UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- (19) The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the waste actually recieved at the facility. Reference the discrepancy by line A, B, C, or D.
- (20) Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

  Retain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form.

Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

TABLE .	1 — F001, F002, F003, F004, F005	SPENT SO	LVENT WAS	TES		
	CONSTITUENT	WASTEWATERS I	KON-WASTEWATERS mg/L	CONSTITUENT	WASTEWATERS Mg/L	NON-WASTEWATERS mg/L
268.41(a)	Carbon disulfide	NA NA	4.8 0.75	Methanol	II.	0.75
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INCIN.	2-Nitropropane	(WETOX or CHOXD) 16 CARBN; or INCIN	IKON.
Z68.43(a)  TABLE 2  □ ≥ 50 17  □ ≥ 1,000	Acetone  Benzene  n-Butyl akohol  Carbon disulfide  Carbon tetrachloride  Chlorobenzene  Cresok (m and p-isomers)  o-Cresol  Cydohexanone  1,2-Dichlorobenzene  Ethyl acetate  Ethyl benzene  Ethyl ether  bscbutanal  Methanol  Methylene chloride  PPM but<10,000 PPM Appendix III HOCs and pri	. (liquid) 🔲 marily water. (Only	y for wastes with no	Methylene chloride (Pharmaceutical industry wastewater sub-category) Methyl ethyl ketone Methyl isobutyl ketone Nitrobenzene Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichloroethylene Trichloroethylene Trichlorofluoromethane Xylene (Total)	0.44 0.28 0.14 0.068 0.014 0.056 0.08 0.054 0.030 0.057 0.054 0.02 0.32	36 33 14 16 5.6 28 5.6 7.6 28 5.6 33 28
	L					
		С	ERTIFIC	ATIONS		
°I certify unde that the lab pa not subject t penalties for : ment.°	DIX IV LAB PACK (ORGANOMETAL er penalty of law that I personally examined an ick contains only the wastes specified in Appen o regulation under 40 CFR part 261. I am a submitting a talse certification, including the	d am familiar with dix IV to part 268 o ware that there a possibility of fine	the waste and or solid wastes are significant or imprison-	2 APPENDIX V LAB PACK (ORGAP "I certify under penalty of law that I personal through analysis and testing or thorough kn contains only organic wastes specified in Appe to regulation under 40 CFR part 261. I am a submitting a false certification, including the	ly examined and owledge of the vendix V to part 26 ware that there a possibility of fine	vaste and that the lab pac Bor solld wastes not subject The significant penalties to
Signature	Da	te	<del></del>	Signature	Date _	
T certify under that the waste	e complies with the treatment standards speci mation I submitted is true, accurate and con	d and am lamillar	268 Subpart Dar	rough analysis and lesting or thorough knowled and all applicable prohibitions set forth in 40 CFR gnificant penalties for submitting a false certi	1 268.32 of RCRA	section 3004(d). I believe
Signature	Da	ite				
4 FORM	CERTIFICATION	<del> </del>				
	ns or errors exist."			te and accurate to the best of my know		ility to determine that
NAME	HAIL MYER			E HAZ MATA	1612	
SIGNATUR	EX Kind	My_	DAT	E JANUARY 13 19"	93	
		•			MOR	000526

-- (Initial Waste Generator Only) --

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME MOT	ey Corp.		J GEN. EPA I.I	D. NUMBER IL IL	D 10 12   5 <b>4</b> 1	5 12 16 161
STREAM NO.L 515	7 MANIFEST	NO. LILY(	,72812	Line No. ☑ 11a	11b11c	☐ 11d
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number (	used to identify the wa	ste, as applicable, by c	ompleting blocks and (	hecking (/) boxes.
1. U.S. EPA Waste Number:	D001	D008				
2.Subcategory:	Ign. Liq. High TOC					
3- Treatability Group:  • Wastewater  • Non-Wastewater	□ ⊠					
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment		XI		0		0
5. This waste is subject to a treatment standard under 40 CFR 268.42(a): (Include Technology Codes)	SUBSINCIN RORGS					
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (INCIN)	٥					
7. Tals waste is subject to a treatment standard under 40 CFR 268.43(a): • Waste Requires Treatment • Waste Dees Not Require Treatment	0				0	0
8. This waste is subject to a prohibition under 40 CFR 258.32(a) or RCRA Sec. 3004(d): (California List prohibitions)						
9. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(a): (INCIN)  • Appendix IV (organometallic lab pack)  • Appendix V (organic lab pack)						
10. This waste is hazardous debris subject to the alternative treatment standard under 40 CFR 268.45(a);						
11.(Reserved)						
12. This waste is subject to an exemption from treatment under:  a national capacity variance  a Case-by-case extension  (reserved)	000	0		0	000	000
The exemption expires ex:					j	
ADDITIONAL REQUIREMENTS	Check all that apply, an	d follow lastructions.				
☐ F001—F005 SPENT SOLVENT (Complete Complete fication 🚺 ) 💢 🗆		K (Complete Certifica	tion 🔼 ) 🔲 F039 (Atta	IS DEBRIS (Complete ) ch constituent (ist)	able 3)	
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State Form LPC 62 8/81

IL532-0610

AND SPECIAL WASTE

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Т	WASTE MANIFEST	100025419	5286		3653	of i		d by Illinois La		15
П	3. Generator's Name and Mailing Address		if Different:			A. Illinois Me		ment Numb		75 P
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1	11. US DOT Description (including Proper Shipping	Name, Hazard Class,	and ID Number)		12. Conta		13.	14.	1.4	
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	16. GENERATOR'S CERTIFICATION: I hereby declare	that the contents of this	consignment are	fully and accu	rately descri	had shove by				Η'
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-	20. Facility Owner or Operator: Certification of re	ceint of herdous met	ariale covered b	hy this mank	esi evreni	as noted in i	em 19		Date	٦
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to filinois Revised Statute, 1986, Chepter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide nel the owner or operator not to exceed \$25,000 per day of violation. Failification of this information may result in a fine up to \$50,000 are. This form has been approved by the Forms Management Center.



The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and nonhazardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PIMW (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part 1 should be used.

INSTRUCTIONS TO GENERATORS (Please type)

(1) Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (eg. 00001) by the generator.

(2) Enter total number of pages comprising this Manifest.

- (3) Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- (4) Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.

(B) Enter the generator's Illinois EPA ten digit identification number.

- (5,6,C,D) For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- (7,8,E,F) If applicable, enter the information requested for the second transporter who will transport the waste. If more than two transporters are used, use a second manifest and in Section 15 of the second manifest enter "Continuation of Manifest Number xxxxxxx" (from Section A).

(9.10,G,H) For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.

- (11) Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT." If more than four waste streams are in a shipment, complete a second manifest.
- (12) Enter the number of containers for each waste and the appropriate abbreviations for the type of container:

TP

DM CM Metal boxes or roll-offs Metal drums CW Wooden boxes DW Wooden drums CF DF Fiberboard or plastic boxes Fiberboard or plastic drums Burlap, cloth, paper or plastic bags CY Cylinders BA DT Dump trucks TC Tank cars TT Tank trucks

Enter the total quantity (gallons or cubic yards) of each waste; round to nearest whole number, do not use decimals or fractions.

[14] Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.

Tanks portable

- (I) Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).
- (J,K) If needed, enter additional description or information/instructions for the material listed in item 11.
- (15) If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment, storage, or disposal outside the jurisdiction of the United States in this space.
- (16) The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: (17,18) The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt. UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- (19) The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the waste actually recieved at the facility. Reference the discrepancy by line A, B, C, or D.
- (20) Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

  Retain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form.

Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

Printed / Typed Name

FOR SHIPMENT OF HARDOUS SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 P.O. BOX 19276 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. EPA Form 8700-22 (Rev. 5-89) Form Approved. OMB No. 2050-0039, Expires 9-30-92 1. Generator's US EPA ID No. Information in the shaded areas is not Manifest 2. Page 1. **UNIFORM HAZARDOUS** Document No. required by Federal law, but is **WASTE MANIFEST** required by Illinois Law ことのひろちょもちつんべ 3077 A Illinois Manifest Document Number Location If Different: 3. Generator's Name and Mailing Address Fee Paid, If Applicable Mocay Joro. 2539 Wisconsin Ave., Downers Grove, 4.124 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS 1778 064 IL 50515 D Fac (2) of C (Block Transporter a 708-96 5. Transporter 1 Company Name CC 17 (2) 24 SC 27 SC (MINDONS) DVICONMANTAL Waste US EPA ID Number 7. Transporter 2 Company Name Transporter's Osings Transportation Systams US EPA ID Number 9. Designated Facility Name and Site Address 10. Clayton Chemical Co. 1 Mobile Ave. 1318-271-0467 DOKKALARDO <u> Sauget, II, 62201</u> 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13 Total 9 Туре No. Wt/Vo Quantity a RQ Maste Flammeble Liquid. N.O.S. (Isopropeno. E Fand) Financiable Ligid United Liberty 00. N Ε R O R d. G = (Gallonse Y) = Clubic Yards and the National Response 15. Special Handling Instructions and Additional Information Smargancy Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Date Center at 800/424-8802 or 2021420-20 Printed / Typed Name Signature Day Month 17. Transporter 1 Acknowledgement of Receipt of Materials Printed / Typed Name Signature Month Day Year THOMAS LACKE-Date 18. Transporter 2 Acknowledgement of Receipt of Materials Printed / Typed Name Signature Day Year Month 19. Discrepancy Indication Space Date 20. Facility Owner or Operator: Certification of receipt of hardous materials covered by this manifest except as noted in Item 19.

This Agency is authorized to require, pursuant to Minois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be authorized to the Agency. Fall this information may result in a civil penetry against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Signature

Day

Month

9

8

The Illinois Uniform Manifest must be used for all shipments of special waste (hazardous and nonhazardous) stored, disposed of, treated or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. PIMW (Potentially Infectious Medical Waste) requires a different manifest. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part 1 should be used.

#### INSTRUCTIONS TO GENERATORS (Please type)

(1) Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (eg. 00001) by the generator.

(2) Enter total number of pages comprising this Manifest.

- (3) Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- (4) Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.

(B) Enter the generator's Illinois EPA ten digit identification number.

- (5,6,C,D) For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- (7,8,E,F) If applicable, enter the information requested for the second transporter who will transport the waste. If more than two transporters are used, use a second manifest and in Section 15 of the second manifest enter "Continuation of Manifest Number xxxxxxx" (from Section A).

(9,10,G,H) For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.

(11) Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT." If more than four waste streams are in a shipment, complete a second manifest.

(12) Enter the number of containers for each waste and the appropriate abbreviations for the type of containers

CM Metal drums Metal boxes or roll-offs DM CW Wooden boxes DW Wooden drums CF Fiberboard or plastic boxes DF Fiberboard or plastic drums BA Burlap, cloth, paper or plastic bags CY Cylinders DT Dump trucks TC Tank cars TT Tank trucks

TP - Tanks portable

- Enter the total quantity (gallons or cubic yards) of each waste; round to nearest whole number, do not use decimals or fractions.

  (14) Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons or kilograms in Section J.
- (I) Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) (leave blank for waste going out of Illinois).

(J,K) If needed, enter additional description or information/instructions for the material listed in item 11.

- (15) If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment, storage, or disposal outside the jurisdiction of the United States in this space.
- (16) The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT

INSTRUCTIONS TO TRANSPORTER: (17,18) The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt. UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

(19) The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 III. Adm. Code 725.172) between the waste described on the Manifest and the waste actually recieved at the facility. Reference the discrepancy by line A, B, C, or D.

(20) Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

Retain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form.

Send comments regarding the burden estimate, including suggestions for reducing this burden, to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

TABLE	<u>1 — F001, F072, F003, F074, F005</u>	SPENT SOI	LVENT WAS	TES			
	CONSTITUENT	WINGTEWATT IS I	NON-WASTEWATERS	CONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS mg/L	
268.41(a)	Carbon disulfide	NA NA	0.75	Methanol	NA.	0.75	
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INCIK.	Calitropropane	(WETOX or CHOXO) Ib CARBN; or INCIN	INCIN.	 
	Accione	0.28 0.070	160 3.7	Methylene chloride	0.44	MA	
	n-Butyl alcohol	5.6 0.014	2.6 NA	wastewater sub-category) Methyl ethyl ketone	0.28	36	
	Carbon tetrachloride	0.057 0.057 0.77	5.6 5.7 3.2	Methyl isobutyl ketone	0.14 0.068 0.014	33 14 16	
268.43(a)	o-Cresol Cyclohexanone	0.11 0.36	5.6 NA	Tetrachloroethylene	0.056 0.08	5.6 28	
	1,2-Dichlorobenzene Ethyl acetate Ethyl benzene	0.088 0.34 0.057	6.2 33. 6.0	1,1,1-Trichloroethane	0.054 0.030 0.057	5.6 7.6 28	
	Ethyl ether	1.12	160 170	Trichloroethylene Trichlorofluoromethane	0.054 0.02	5.6 33	
	Methonol Methylene chloride	5.6 0.089	NA 33	Xylene (Total)	0.32	28	
≥ 50 PF	2 — "CALIFORNIA LIST" PROHIE "M PCBs (liquid)	L (liquid) 📋		.IUM (liquid) OTHER (Specify)			
	•	miditil Moles: folis	TOT WUSIES WITH IN	Specific Sopport of the treatment Handward			
IABLES	This hazardous debris is subject to the altern	alive treatme- star	ndaces of 40 CFR 20	68.45." The contaminants subject to treatment pur	suant to 40 CFR 26	8.45(b) are:	
	L						
	L				<del> </del>		
		С	ERTIFIC	ATIONS			
Tertify under that the lab part not subject to	IDIX IV LAB PACK (ORGANOMETAL er penalty of law that I personally examined an ack contains only the wastes specified in Apper to regulation under 40 CFR part 261. I am submitting a false certification, including the	d am familiar with idix IV to part 268 o sware that there a	the waste and or solid wastes are significant	2 APPENDIX V LAB PACK (ORGA 1 certify under penalty of law that I personal through analysis and testing or thorough to contains only organic wastes specified in App to regulation under 40 CFR part 261. I am submitting a false certification, including the	lly examined and nowledge of the v endix V to part 26 aware that there	waste and that the 8 or solid wastes no are significant pen	lab paci otsubjec alties fo
Signature	Da	ite		Signature	Date _		
"I certify under that the wast	E MEETING TREATMENT STANDARD or penalty of law that I personally have examing or complies with the treatment standards speci- mation I submitted is true, accurate and con- nt.	ed and am familiar fied in 40 CFR part	268 Subpart D at	nd all applicable prohibitions set forth in 40 CF	R 268.32 or RCRA	section 3004(d). [	believe
Signature	Da	ate					
1 hereby c	CERTIFICATION ertify that all information supplied abons or errors exist.*						ne that
NAME	PHIL MY	ER	TITL	E HAZ MAT E 3-30-93	MGR	2	
SIGNATUR	EX ROY	M	DAT	E 3-30-93			
		0				000532	

-- (Initial Waste Generator Only) --

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.71 have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME L MOT	ey Corp.	<del></del>		D. NUMBER I IL	<u>ID 10 12 15 <b>4</b> г</u> 1	5 12 16 161
STREAM NO.1 515	7 MANIFEST	NO. LILY6	72972	Line No. 🔁 11a	11b11c	□ 11d
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	r each waste number (	used to Identify the wa	ste, as applicable, by c	ompleting blocks and c	hecking (/) boxes.
1-U.S. EPA Waste Number:	D001	D008				
2. Subcategory:	Ign. Liq. High TOC					
3- Treatability Group:  • Wastawater  • Non-Wastawater	D					
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment	0	<b>Ø</b>				
5. This waste is subject to a treatment standard under 40 CFR 268.42(a): (include Technology Codes)	SUBSINCIN RORGS					
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (INCIN)						
7. This waste is subject to a treatment standard under 40 CFR 268.43(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment		<u> </u>	0	0	0	
8. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (California List prohibitions)						
9. This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(a): (INCM)  • Appendix IV (organometallic lab pack)  • Appendix V (organic lab pack)						
10. This waste is hazardous debris subject to the alternative treatment standard under 40 CFR 268.45(a):						
11_(Reserved)						
12.This waste is subject to an exemption from treatment under:  a national capacity variance  a Case-by-case extension  (reserved)	000	000	000	0		000
The exemption expires ou:						
ADDITIONAL REQUIREMENTS	Check all that apply, an	follow instructions.		······································		
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--- (Initial Waste Generator Only) ---

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I believe th ine and imprisoni	nat the

	nsii(vini	,WASTLWATERG My/L	NOR WASILWAILERS	CONSTITUENT	MATERALITY MATERIAL	MATAWATERW-HOM My Ju
X	Auture	0.05	0.59	Muthylane disuride	0.20	0.96
-	a Buryl dealed	5.0	5.0	X Mediyl ethyl ketone	g.os	0.75
- 445	Carton destido		4.81	Methyl isobutyl kenne		0.33
[	Carbon petruchiando		0.96	National and	0.66	0.125
_	Odur obenzera	0.15	0.05	Pyrider		0.33
	Creschs (and cress the evid)	2.82	0.75	Tetrochiurue thylene	0.079	0.05
[ _	Cyclohea unone	0.125	0.75	X Tuluare	1.12	0.33 `
	1,2 Deciderabenzana	0.65	0.125	1,1,1-Iridikoethune		0.41
_	Litry out the	0.05	0.75	1,1,2-leidiluru-1,2,2,-Teifluuruthana	1.05	0.94
	Ethyl bustone	0.05	0.053	Trichlur outhylene		0.091
	Effeyt officet		0.75	Industrialisms	0.05	0.96
1 -	buloutunud	4	5.0	X Iylaw	0.05 ;	0.15
1 -	Modausi	0.25	0.75		l	Ì
	1107.414	my/L n	#y/L   2 /	u 4 1 . 11 .:1	<b>W</b> y/L	mg/L
			· · · · · · · · · · · · · · · · · · ·		eny/L	ng/L
-	<del>-</del> '''	t .			0.44	NA.
-	541419	0.070	1 1/			
L	1			atreads mornings is		
= 2-	1,1,2-Trichlor configure	0.036 0.070	17.4	Mestrylene chloride	0.44	mg/L
PHA PO						
	·	prinselly water. (Cal	y for westes with no s	pecdic Subpart D HOC Treatment Standard)		
y Ceffi	but < 10,000 PPM Appendix III HO(s and by that all information supplied al priors exist."		d, is complete an	d accurate to the best of my knowledge	•	determine tha

- (Initial Waste Generator Only) -

an supplying this notice and certification to Clayto retermined that the material described below is a restricted by this notification. I have also indicated below the appro-	n Chemical( d was:e as defined in priate management re	on accordance with the first accordance with the first CFR 268. I has supply with the comply with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance with the first accordance wit	n the requirements ve indicated below the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibitions of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohibition of the prohi	of regulations : The type of materials The land disposal	at 40 CFR 268 erial which is for this mater	3.7 I have covered
ENCRATOR'S NAME   Morey Corp.		· .	NUMBER LIL	•		
STREAM NO. 5770 - MANIFEST	NO ILYG		Line No. 🔯 11a			
	WASTE IDE	NTIFICATION				******
A 16-STE THE ATABILITY GROUP						
E.J. Washiwathir Mon-Washiwathir WASTEN SUBCATE	· · · · · · · · · · · · · · · · · · ·	2. F003	3. F005	4 D001 Ign. Lic High TO		
ATERIAL TYPE		•				*:
X F001-F005 Spent Solvent (Complete Table 1) Appendix IV/Appendix V Lab Pack (Attach Packing Lis X Other	it) Diquid or lur which	Lach Constituent List) non liquid, non-wastuw spucific Subpart D HO u codu INCIN)	ater, wastes conti		т Аррилац І	2) III HOCs
RESTRIC	TEŅ WASTE R	EQUIRING TRE	ATMENT			
1. iX I am the unitial generator of an untreated waster of disposed unless it is first treated to the appropria The material described above requires treatment	du troutinont Elandare	a(e) or bropaparou feval	art 268. This was b), as indicated be	te, identified abo ilow.	ove, may not	b <del>u</del> la∩d
(a) Treatment standards expressed as concerning (b) Treatment standards expressed as specified (The appropriate 5-character code(s)).  F S U L C  [C) The alternative treatment standard for La  1. APPENDIX IV LAB PACK (ORGANOMETALLIC)  1. autity enter penalty of tew that I personally have examined and arrival at the lab pack contains only the wastes specified in Appendix IV to go a subject to regulation under 40 CH part 25 1. Turn aware that there is autitiously a tase certification, including the possibility of time or in	tic technologies, as to are inclicated below)  B  B  S  b Pacas, as located in the waste and lart 208 or solid wastes are agrificant penalties reprisor ment.*	APPENDIX VI To entity under peralty only organic wastes specially under 40 CFR 268.42(c) (IN To entity under peralty through analysis and to only organic wastes specially under 40 CFR Part 261 certification, including t	2(a)  J  CIN)  AB PACK (ORGA  of law that I personall  sing or through know  citied in Appendix V to  . I am aware that the  ne possibility of fine of	ANIC) y have examined alledge of the waste a part 208 or solid waste a significant per imprisonment."	id am familiar w and that the laby isles not subject mattes for subn	pack contai I to regulate
		Signature			Dato	
(d) Trustment standards expressed as concern (e) Waste specific prohibition level(s), as loc						
RESTRICTED WA	ASTE NOT REC	UIRING FURTH	IER TREATM	MENT		
.i. [] The above waste, as generated, invots the treat. The material, described above, as generated, ne	outs the following tre-	itmunt standard(s). 🕟				
(a) Truatment standards expressed as conce	untrations in the wasi	a, as located in 40 CFF	3 268.43(a)			
en attached waste amilysis data upon which I have ma 	tainhiai with the waste the Par 208 Suppar D and all	rough analysis and testing applicable prohibitions set	forth in 40 CFR 208.3	EL or HCHA suction	3004(d). I belie	ave that the
- gridulu	_ Data	•	<del></del>			
RESTRICTED WASTES	SUBJECT TO E	XTENSION, PE	TITION OR V	ARIANCE		
il. The waste identified is currently not subject to a  [] (a) A nationwide capacity variance under 40  [] (b) A case by-case extension under 40 CFR 26  [] (c) A no-migration public under 40 CFR 26  The variance, extension or petition indicated above o	CFR (68, Subpart C 268.5 8 6	• .	<b>  2</b> .   <b>3</b>			العدد ال

### ABLE 1 - FOO1, FOO2, FOO3, FOO4, FOO5 SPENT SOLVENT WASTES

	COMMIT: DEAT	, WASTEWATERII mg/L	EKBIAWBIEAW-NOM Jyum	CONSTITULAT	WASTE WATERS my/L	MON-WASTEWATERS
ſ	X Autums	0.05	0.59	Methylene chloride	0.20	0.96
1	a Butyl akahal	5.0	5.0	X Methyl ethyl ketane	0.05	0.75
	Carbon disultate	1.05	4.81	Methyl isubutyl Latune	0.05	0.33
·	Curban terrachlaride	ذن.ں	0.96	Nils about the	0.66	0.125
268.41	Chlurabenzane	0.15	0.05	Pyriden	1.12	0.33
	Cresols (unit crosyle acid)	2.82	0.75	Tetracidaruethyloge	0.079	0.05
	Cydohexanone	0.125	0.75	X Julyana	1.12	0.33
j	1,2-Didsky about mie	0.65	0.125	1,1,1-Iridali outhana	1.05	0.41
į	Etiyl quade	1	0.75	1,1,2-trichlure-1,2,2,-Trifluerethane	1.05	0.96
į	Ediyl beniese		0.053	X Iridilacosthylane	0.042	0.091
- 1	Lihyl ether	0.05	0.75	Iridilarafluaramethane	0.05	0.96
1	balatunul	5.0	5.0	X Xylane	0.05	0.15
- 1	Mediulul	0.25	0.75		1	1
8 42 <b>[</b>	2-Ellioxyetheauf	BIODG, or INGN.	th(CIN.	2-Nuk opropone	(WETOX or CHOXD)	INQN.
_	1	my/L	my/L		my/L	Λge
143	1,1,2-leichlur oothund	0.030	7.6	Methylene chloride	0.44	KL
, 43	- Paramanananananananananananananananananan	Ų.07 <b>0</b>	3./	Anthonical mychaels (Aminecentral mych)		
_: 50 Fru	— "CALIFORNIA LIST" PROHIB: I PCBs (Iquad) □ ≥ 134 PYM NICKEL PYM bar< 10,000 PYM Apparalia III HOG and pri	(انبینا)		IM (liquid)	· · · · · · · · · · · · · · · · · · ·	
.: 50 Fru .: 1,000 (	L PCBs (Injurd) □ ≥ 134 PPM NICKES PPM but < 10,000 PPM Apportalis III HOCs and pri	(liquid) [] marily water. (Only	for wastes with the s		and ability to	duturmine that n
.: 50 Pre .: 1,000 ( croby co	t PCBs (layard) □ ≥ 134 PPM NICKEL PPM but < 10,000 PPM Appendix III HOCs and pri urtily that all information supplied above	(liquid) [] marily water. (Only	for wastes with too s	gedic Subpart D HQC Treatment Standard) d accurate to the best of my knowledge		duturmine that n

FOR SHIPMENT OF HA

P.O. BOX 19276

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PI	LEASE TYPE (Form designed for use on elite (12-pi	tch) typewriter) EPA Form 8	700-22 (Rev. 6-89) Fo	rm Approved. OMB No. 20!	<b>5</b> .
4	E OIM OIM HAZAIDOOO	Generator's US EPA ID No.	Manifest Document No.	2. Page 1 Information i	n the
Н	WASTE MANIFEST	(1.0025415266	84412	of 1 required by f	v
11	3. Generator's Name and Mailing Address	Location If Different	a a		
П	Morey Corp.				
П	2659 Wisconsin Ave., D			ranger Canada kang b	
$\Pi$	4. *24 HOUR EMERGENCY AND SPILL ASSIST			97	viet king in
П	5. Transporter 1 Company Name	6. US EPA II			
П	7. Transporter 2 Company Name	Vicas IID9849			
П		•		jublijski istorija. D	Aller Aller
П	Ozinga Transportation S  9 Designated Facility Name and Site Address	ystems II D982'			
11	Clayton Chemical Co.				S
П	1 Mobile Ave.		ેંદ્રેલ		
П	Sauget Ii 62201	11,0066914	1327 - 5	は、大学では、中央日本ので	
П	11. US DOT Description (Including Proper Shipping	ng Name, Hazard Class, and ID Nu	nber) 12. Containe	rs 13. 14 Total Un	
			No. Ty	be Quantity Wi/	
•	a to donte the total	uza since			
E		ULU, N.V.S.			
E	- 3 UNI > 23 PG - 11 ( D901	<del>.5003)</del>	006 3		
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					$\mathbb{C}[V_{1},N] \subseteq \mathbb{R}^{n}$
1					
					rright or start
	15. Special Handling Instructions and Additional In	formation			<u> 1. 3 (14.1 )                                  </u>
1	15. Special Halloling Instructions and Additional III	Makon			
1	Emergency Conta-	ct # 708-964-2300			1
1	16. GENERATOR'S CERTIFICATION: I hereby decl				
ı	proper shipping name and are classified, packed, ma according to applicable international and national government.		n proper condition for trans	port by highway	
1	If I am a large quantity generator, I certify that I have economically practicable and that I have selected the				
١	future threat to human health and the environment; the best waste management method that is available	OR, if I am a small quantity generator, I			eneration and select
1	Printed/Typed Name	Signature			Month Day Year
╁	. miles, types regins	Oignature			1 - 7 1
Ť	17. Transporter 1 Acknowledgement of Receipt of	Materials			Date
Ř	Printed/Typed Name	Signature	<del></del>		Month Day Year
N S	THANK LAKE		, , , , , , , , , , , , , , , , , , ,	$\sim k_B / k_B = 1$	11 12 11
P	18. Transporter 2 Acknowledgement of Receipt of	Materials		· <del>····/</del>	Date
Ř	Printed/Typed Name	Signature		<del></del>	Month Day Year
TRANSPORTER					
	19. Discrepancy Indication Space	<del></del>	<del></del>		- (:
F					
FACI					<b>[</b> -
L				<del></del> _	
I T	20. Facility Owner or Operator: Certification of rec	~	by this manifest except	as noted in item 19.	Date
T	Printed/Typed Name	Signature			Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Faisification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

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- Enter the EPA 4 digit Hazardous Waste Number; if waste is a mixture of listed and characteristic wastes, the listed waste must be entered - other numbers should be listed in Section J. For nonhazardous special wastes, enter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies, and are obtained from the receiving facility) cleave blank for waste going out of Illinois).

(J.K) If needed, enter additional description or information/instructions for the material listed in item 11.

- the condition of the condition of the step of the step of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of . . . Sir. and the second courts and the and State) for shipments destined for heatment storage, or disposal outside The second of the second
- The second of the first of the second care the certification statement. If a mode other than highway is used the word "highway" state the beautiful of the angle of the theory said, water, or air) inserted in the space below. If another mode in addition to highway is used, A STATE OF THE STATE OF THE SAME OF SHIPMENT.

  WASTES ONLY, MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF SHIPMENT.

INSTRUCTIONS TO TRANSPORTER: (17-18) The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described to the Manifest by signing and entering the date of receipt. UPON DELIVERY OF WASTE TO FACILITY, extain the control of the map is presented by facility owner/operator.

INSTRUCTION AND OBJECT AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

(18) The analysis representation of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discret ancy (a. 16 miles) is \$5.10 and 15 ide 225 173) between the waste described on the Manifest and the waste actually received at the facility. Relations in an treating two to the tipe of the

(20) In the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge cept. The facility of the date of receipt

eta, conv The reservoir transforms wastes, send copy that the Illands in the decorated description delivery.

> this epon ng buiden for this in the of information is estimated to to sugar a commutes for generators, 15 minutes for transporters, and 10 minutes for freatment, storage and divisions facilities. This includes time the structions, gathering state and completing and reviewing the OFFY

Send comments regarding the ourder. estimate, including suggestions for reducing this burden to: Chief Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480, and to the Office of Information and Regulatory Affairs Office of Management and Budget Washington. DC 20503.

TABLE	CONSTITUENT		LVENT VVAS ION-WASTEWATERS mg/L			ON-1"ASTEWATERS
268.41(a)	Carbon di ulfide Cydohexc one	NA NA	4.8 0.75	Methanol	- NA	me/L 0.75
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INCIN.	2-Nitropropone	(WETOX or CHOXD)	INCIN.
268.43(a)  TABLE 2  □ ≥ 50 PP  □ ≥ 1,000	Acetone Benzene  n-Butyl (cohol  Carbon ic diffide  Carbon ic rachloride  Chlorobe zene  Cresols (n: and p-is umers)  o-Cesol  Cyclohex none  1,2-Dichx nobenzer  Ethyl bes ine  Ethyl eth  bscbutan  Methanol  Methylene chloride  PPM but<10,000 PPM Appendix III HOCs and pr	0.28 0.070 5.6 0.014 0.057 0.057 0.77 0.11 0.36 0.088 0.34 0.057 0.12 5.6 5.6 0.089  SITIONS L (liquid)	160 3.7 2.6 NA 5.6 5.7 3.2 5.6 NA 6.2 33. 6.0 160 170 NA 33	Methylene chloride	0.44 0.28 0.14 0.068 0.014 0.056 0.08 0.054 0.030 0.057 0.054 0.02 0.32	NA  36 33 14 16 5.6 28 5.6 7.6 28 5.6 3.3 28
	L		FDTIFIC	PATIONS		
'I certify unde that the lab pa not subject t	IDIX IV LAB PACK (ORGANOMETAL er penalty of law that I personally examined an ack contains only the wastes specified in Apper to regulation under 40 CFR part 261. I am submitting a false certification, including the	.LIC) d am familiar with dix IV to part 268 o aware that there a	the waste and or solid wastes are significant	APPENDIX V LAB PACK (ORGA "I certify under penalty of law that I person through analysis and testing or thorough a contains only organic wastes specified in Ap to regulation under 40 CFR part 261. I am submitting a false certification, including the	ally examined and a mowledge of the wa pendix V to part 268 of aware that there ar	iste and that the lab pai or solid wastes not subje e significant penalties fi
Signature	Da	ale		Signature	Date	
"I certify under that the wast that the infor imprisonmer	E MEETING TREATMENT STANDARI er penalty of law that I personally have examin e complies with the treatment standards spec rmation I submitted is true, accurate and cor nt.  D	ed and am familiar i ified in 40 CFR part nplete. I am aware	268 Subpart D a that there are s	and all applicable prohibitions set forth in 40 Cl	R 268.32 or RCRA's	ection 3004(d). I believe
<b>7</b> F001	CERTIFICATION		<del></del>			
Thereby co	certification entity that all information supplied abons or errors exist.*  HIL MYER  LE X					ity to determine that
SIGNATUR	E A	<del>\</del>	UA		MOR 0	00540

— (Initial Waste Generator Only) —

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

<del></del>	·		<del>`                                    </del>	<del></del>		
GENERATOR'S NAME Morey Corp.   GEN. EPA I.D. NUMBER ILL ID  0 2 54  1 5  2  6  6   STREAM NO.   5157   MANIFEST NO.   ILL Y 7 8 44 12   Line No.   Ill   116   116   116						
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number	used to identify the wa	ste, as applicable, by c		
1. U.S. EPA Waste Number:	D001	D008				
2. Subcategory:	Ign. Liq. High TOC					
3. Treatability Group:  • Wastawater  • Non-Wastewater	D   IS					
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment		<b>X</b> I				
5. This waste is subject to a treatment standard under 40 CFR 268.42(a): (Include Technology Codes)	SUBSINCIN					
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (INCIN)						
7. This waste is subject to a treatment standard under 40 CFR 268.43(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment			0			0
8. This waste is subject to a prohibition under 40 CFR 265.32(a) or RCRA Sec. 3004(d): (California List prohibitions)						
This waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 258.42(a): (INCIN)     Appendix IV (organometallic lab pack)     Appendix V (organic lab pack)						
10. This waste is hazardous debris subject to the alternative treatment standard under 40 CFR 268.45(a):						
11_(Reserved)						
12. This waste is subject to an exemption from treatment under:  a national capacity variance  a Case-by-case extension  (reserved)		0		000		000
The exemption expires es:						
ADDITIONAL REQUIREMENTS	Check all that apply, an	d follow instructions.				
□ FD01—FD05 SPENT SOLVENT (Complete Table 1) □ "CALIFORNIA LIST" (Complete Table 2) □ HAZARDOUS DEBRIS (Complete Table 3) □ APPENDIX IV LAB PACK (Complete Certification 1 ) □ APPENDIX V LAB PACK (Complete Certification 2 ) □ FO39 (Attach constituent list) □ WASTE MEETS A TREATMENT STANDARD, AS INDICATED ABOVE IN ROW 4 OR 7. (Complete Certification 2 )						
,				[	This page is a contin	ration sheet.

$\cong$	P.O. BOX 19276	, SPRINGFIELD, ILLINOIS 62794-	9276 (217) 782		FOR SHIPMENT OF HAZARDOUS
		State Form LPC 62 8/81	1 IL532-0610		AND SPECIAL WASTE
PLEASE TYPE	(Form designed for use on elite (12-pitch) typewrite	er.) EPA Form 8700	-22 (Rev. 6-89)	Form Approved.	OMB No. 2050-0039, Expires 9-30
A JINIFOR	M HAZARDOUS 1. Genera	tor's US EPA ID No.	Manifest	2 Page 1	Information in the shaded areas is a

Ä	LINECON HAZADDOUG	1. Generator's US EPA ID	No M	anifest	On Paper 4		-0039 Expires 9	
4	UNIFORM HAZARDOUS		Docu	ment No.	2. Page 1	Intormation in required by Fe	the shaded areas deral law, but is red	is not
1	WASTE MANIFEST	ThD025415266		097	of 1	by Illinois law.		400
	3. Generator's Name and Mailing Address	Location If Diffe	rent				ASIMPRESTS.	Section 5
Н	Morey Corp.						100	
П	2659 Wisconsin Ava.,	Downers Grove	TT 6051	٠. ا				•
П	4. 24 HOUR EMERGENCY AND SPILL ASSIST	ANCE NUMBERS* 704	-084-3300 	· .	gerren in			
П	5. Transporter 1 Company Name		US EPA ID Number		erika Militarian di seri			
	1				en garego	21-714		
	Environmental Waste Se		12088461610	7				
1	7. Transporter 2 Company Name	_ •	US EPA ID Number				and the state of	
	Ozinga Transportation	Systems I	LD98206717	·			ीर रहते र सहस्रे ३३	··.
	Designated Facility Name and Site Address	10.	US EPA ID Number					
	Clayton Chemical Comp	anv				2 4 4 5 1		
	1 Mobile Avenue	77						
Н	Sauget, IL 62201	1 .	LD06691832	., 4				
П	11. US DOT Description (Including Proper Shippi			12. Contair	ners 13	3. 14.	grafinal fra	
П	11. Od bot beschpilot (moldding Fraper Shippi	ing Name, nazaru Gass, a	IN ID NUTION		Tot	tal Unit		
				No. T	ype Quar	ntity Wt/Vo	7	
G	a RQ Waste Flammable Liq	uid, N.O.S.	}	, )	}	}	100	•
E	(Isopropanol, Lead)			0011	1000	55		
N	3 UN1993 PG II (500	1.D008)		<u>, , , , , , , , , , , , , , , , , , , </u>	M UUC	<u>ر الرار</u>		
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11	16. GENERATOR'S CERTIFICATION: I hereby dec	lare that the contents of this of	onsignment are fully and	d accurately	described above	e by		
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11	according to applicable international and national go If I am a large quantity generator, I certify that I ha		ne the unlume and tovin	itu of weete	nenerated to th	no degree I hos	e determined to h	
11	economically practicable and that I have selected t	he practicable method of treat	ment, storage, or dispos	sal currently	available to me	which minimize	es the present an	ă
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This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

<u>TABLE 1</u> — F001, F002, F003, F004, F005 SPENT SOLVENT WASTES							
	CONSTITUENT	WASTEWATERS I	ION-WASTEWATERS mg/L	CONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS mg/L	
268.41(a)	Carbon disullide	HA KA	4.8 0.75	Methanol	, MA	0.75	
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INCIN.	2-Nitropropane	(WETOX or CHOXO)	INCIN.	
268.43(a)  IABLE 2  □ ≥ 50 PP	Acetone Benzene  n-Butyl alcohol  Carbon disulfide  Carbon tetrachloride  Chlorobenzene  Cresols (m and p-isomers)  o-Cresol  Cyclohexanone  1,2-Dichlorobenzene  Ethyl ocetate  Ethyl benzene  Ethyl ether  Isobutanol  Methanol  Methylene chloride  Methylene Chloride  Methylene Chloride  Methylene Chloride  Methylene Chloride  Methylene Chloride	0.088 0.34 0.057 0.12 5.6 5.6 0.089		Methylene chloride (Pharmaceutical industry wastewater sub-category) Methyl ethyl ketone Methyl isobutyl ketone Mitrobenzene Pyridine Tetrachloroethylene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene Trichloroethylene Trichloroethylene Trichlorofluoromethane Xylene (Total)  DIUM (liquid) OTHER (Specify) Dispecific Subpart D HOC Treatment Standard)	0.44 0.28 0.14 0.068 0.014 0.056 0.08 0.054 0.030 0.057	NA  36 33 14 16 5.6 28 5.6 7.6 28 5.6 33 28	
TABLE 3	TABLE 3 — HAZARDOUS DEBRIS This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45." The contaminants subject to treatment pursuant to 40 CFR 268.45(b) are:						
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I certify under that the lab par not subject t	IDIX IV LAB PACK (ORGANOMETAL or penalty of law that I personally examined an ack contains only the wastes specified in Appen to regulation under 40 CFR part 261. I am a submitting a false certification, including the	LIC) dam famillar with dix IV to part 268 o ware that there a	the waste and r solid wastes re significant or imprison-	APPENDIX V LAB PACK (ORGAI certify under penalty of law that I personal through analysis and testing or thorough kn contains only organic wastes specified in Appeto regulation under 40 CFR part 261. I am a submitting a false certification, including the	ily examined and lowledge of the tendix V to part 26 ware that there :	vaste and that the lab pa Borsolid wastes not subje are significant penalties fo	
Signature	Da	te		Signature	Date		
T certify under that the wast that the info	WASTE MEETING TREATMENT STANDARD(S) Teertify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or thorough knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.						
Signature	Da	te	<del></del>				
"I hereby co	CERTIFICATION ertify that all information supplied abo	ove, and attach	ed, is complet	te and accurate to the best of my know	vledge and ab	ility to determine that	
	ons or errors exist."			_			
name Z	hil Wichmann	<del></del>		E		<u> </u>	
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3. Generator's Name and Mailing Address Location If Different				SHALL STATE
Morey Corp. 60515		2 de 2 de		
2659 Wisconsin Ave., Downers Grove, IL 60				
4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 708-964-230  5. Transporter 1 Company Name  6. US EPA ID Num			7 . 7 . 1	13.40.33
Environmental Waste Services   ILD9849161  7. Transporter 2 Company Name 8. US EPA ID Num				
Ozinga Transportation Systems ILD982067				
Designated Facility Name and Site Address 10. US EPA ID Num				
Clayton Chemical Co.				1.5.42.43
Mobile Ave.				
Sauget, IL 62201   ILD06691832	7		The state	
1. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Conta	iners 1	3. 14. otal Unit	g Tilyts N
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5. Special Handling Instructions and Additional Information				
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according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and	d toxicity of was	te generated to	the degree I have	determined to be
economically practicable and that I have selected the practicable method of treatment, storage, or future threat to human health and the environment; OR, if I am a small quantity generator, I have m	disposal current	ly available to m	ie which minimize: ize my waste geni	s the present and eration and select
the best waste management method that is available to me and that I can afford.				Date
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~	PLEASE TYPE	(Form designed for use on elite (12	-pitch) typewnter.)	EPA Form 8700-22 (Rev. 6-89)			OMB No. 2050-0039. Expires 9-30-94
		M HAZARDOUS TE MANIFEST	1. Generator's US EPA ILD025415		Manifest Document No. 6 5 0 7 7	2. Page 1	Information in the shaded areas is not required by Federal law, but is required by Illinois law.
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	UNIFORM HAZARDOUS	Generator's U	IS EPA ID No.	Manifest Document No.	2. Page 1	Information in	the shaded areas is no	
П	WASTE MANIFEST	ILD02	5415266	of 1	required by Fe by Illinois law.	ederal law, but is required		
П	Generator's Name and Mailing Address	Generator's Name and Mailing Address Location If Different						
Ш		Morey Corp.						
П	2659 Wisconsin Ave.,							
11	4. *24 HOUR EMERGENCY AND SPILL ASSIST							
П	5. Transporter 1 Company Name	6.	US EPA ID					
		Environmental Waste Services ILD984916197  7. Transporter 2 Company Name 8. US EPA ID Number						
П	7. Transporter 2 Company Name	200		23.5				
П	Ozinga Transportation S  9. Designated Facility Name and Site Address	ystems [	ILD9820 US EPA ID					
П	-							
П	Clayton Chemical Compa 1 Mobile Avenue	illy					A State of	
	Sauget, IL 62201	ı	TT D0660	10227				
П	11. US DOT Description (Including Proper Shipp	ing Name Hazan	ILD0669		inore 1	3. 14.	2 A.C. (2.43.1)	
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	15. Special Handling Instructions and Additional Ir	formation						
П	Emergency Cont	act # 70	8-064-2300					
П	Emergency cont	act # 70	6-904-2300					
	16. GENERATOR'S CERTIFICATION: I hereby dec	lam that the center	nte of this consignment :	om fulls, and non-ratel	ly described abo	m hu		
П	proper shipping name and are classified, packed, ma	arked, and labeled, a	and are in all respects in	proper condition for	ransport by high	way		
Н	according to applicable international and national go  If I am a large quantity generator, I certify that I ha			e and toxicity of was	te generated to t	the degree I hav	e determined to be	
П	economically practicable and that I have selected to future threat to human health and the environment;							
Н	the best waste management method that is available				7 011011 10 71		Date	
	Printed/Typed Name		Signature	• / ) 1			Month Day Year	
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1	20. Facility Owner or Operator: Certification of re-	ceipt of hazardou	is materials covered t	y this manifest exc	ept as noted in	n item 19.	Date	
¥	Printed/Typed Name		Signature		$-\mu$	<del></del>	Month Day Year	
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t	his Agency is authorized to require, pursuant to Illinois Revised Sta is Information may result in a civil penalty against the owner or op or day of violation and imprisonment up to 5 years. This form has I	atute, 1989, Chapter 11 perator not to exceed 1 been approved by the	1 1/2, Section 1004 and 102 \$25,000 per day of molation Forms Management Cepter.	1, that this information be Falsification of this infor	e submitted to the A mation may result in	gency. Fail ve to p a fine up to \$60,	rovide 000	

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(B) Enter the generator's Illinois EPA con unab beginning from the con-(5,6,C,D) For the first transporter who will have the west to and the fact of the total EFA four digit Special Waste Hauling (SWH) permit number a services and process to be one of an including the event of an emergency. The Follow It more than two (7,8,E,F) It applicable, enter the infi astronomitations Somber xxxxxxxx transporters are used, use a second maniferential hereafted of the from Section -(9.10,G,R) = 2 cm and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s 11: code number, ----(11) Enter A minute limit of angle ps identified of the weste and the generic 3. 3 th. 1 to € . Maz name of the and henry contribute a second manif-(12) Enter CM = Met:  $w_{\alpha_{1}\ldots \ldots}$ CW = CF = Fibe BA = Bur! DT = Dan TC Taus . .. (13)Enter L. Conda (14)Foler of any stations, tons or kilograms in Section I. Enter the EPA 1 digit Hazardous Waste Number. If waste to a 15 more of more in the characteristic wastes, the listed waste must be entered - other numbers should be listed in Section J. For nonhazardous special westes, lanter Class A. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each whose stream and companies, and are obtained from the receiving facility) (leave brank for waste going out of Illinois). (J.K) If needed, enter additional description or information/instructions for the majorial listed in item (I. 1 4000 with the first Sill of Lading information. For international 415 diagram and disposal outside 1 /200 . . . . 1160 state translavay" SPORT. is an in the algebray is used, ned 4 The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co S 2111  $(n,i) \in \mathcal{L}(MENE)$ Commission of the Commission of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the Charles of the INSTRUCTIONAL PERSONSING OF acceptance of Blowner each pole in the wastern . . -----INSTRUCT Commence of 1 2775 231 Kar . 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FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

State Form LPC 62 8/81 IL532-0610 EPA Form 8700-22 (Rev. 6-89) EASE TYPE (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No 2050-0039. Expires 9-30-94 **UNIFORM HAZARDOUS** Information in the shaded areas is not required by Federal law, but is required 1. Generator's US EPA ID No. Manifest Document No. WASTE MANIFEST ILD025415266 by Illinois law 3. Generator's Name and Mailing Address Location If Different Morey Coro. 2659 Wisconsin Ave., Downers Grove, It. 60515 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 708-964-2300 US EPA ID Number 5. Transporter 1 Company Name Environmental Waste Services <u> 11.D984916197</u> 7. Transporter 2 Company Name US EPA ID Number Ozinga Transportation Systems <u> TLD982067175</u> 9. Designated Facility Name and Site Address US EPA ID Number 10 Clayton Chemical Company 1 Mobile Avenue ILD066918327 Sauget, IL 62201 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Total Type No. Quantity Wt/Vol aRQ Waste Flammable Liquid, N.O.S. G E (Isopropanol, Lead) N UN1993 PG II (DO01.DU08) F b. R T O A 711/102-100U aliu d. Ē National Response Center 15. Special Handling Instructions and Additional Information Emergency Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date 36 Qay Printed/Typed Name Signature ă V V Date 17. Transporter 1 Acknowledgement of Receipt of Materials Month Day Year Printed/Typed Name Signature 1. 15 Æ. Date 18. Transporter 2 Acknowledgement of Receipt of Materials Year Month Day Printed/Typed Name Signature č 07-074/707 19. Discrepancy Indication Space c Date 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

This Agency is authorized to require, pursuant to fillinois Revised Statute, 1989, Chapter 111. 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Failsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

Printed/Typed Name

Signature

Month Day

Year

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# NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL — (Initial Waste Generator Only) —

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

GENERATOR'S NAME Morey Corp. J GEN. EPA I.D. NUMBER LL ID 10 12 15 4 1 5 12 16 161							
STREAM NO.L 515	7 MANIFEST	NO. LILY8	65077	Line No. 11a		☐ 11d	
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	r each waste number t	ised to identify the war	ste, as applicable, by c	ompleting blocks and c	hecking (/) boxes.	
1. U.S. EPA Waste Number:	D001	D008					
2. Subcategory:	Ign. Liq. High TOC						
3- Treatability Group:  • Wastewater  • Non-Wastewater							
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment		<b>X</b>				0	
Statutary annual 40 Ol 11 200.42(a).	SUBSINCIN RORGS						
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (INCIN)							
7. This waste is subject to a treatment standard under 40 CFR 268.43(a):  • Waste Requires Treatment • Waste Does Not Require Treatment	0	0	0	0	0	0	
8. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3094(d): (California List prohibitions)							
9. This wasie is a Lab Pack subject to the afternative treatment standard under 48 CFR 258.42(a): (INCIN)  • Appendix IV (organometallic lab pack)  • Appendix V (organic lab pack)							
10. This waste is hazardous debris subject to the alternative treatment standard under 40 CFR 268.45(a):							
11.(Reserved)							
12. This waste is subject to an exemption from treatment under:  a national capacity variance  a Case-by-case extension  (reserved)	000	0		0	000	000	
The exemption expires on:							
ADDITIONAL REQUIREMENTS	Check all that apply, an	d follow instructions.					
□ F001—F005 SPENT SOLVENT (Complete Table 1) □ "CALIFORNIA LIST" (Complete Table 2) □ HAZARDOUS DEBRIS (Complete Table 3) □ APPENDIX IV LAB PACK (Complete Certification 1) □ APPENDIX V LAB PACK (Complete Certification 2) □ F039 (Attach constituent list) □ WASTE MEETS A TREATMENT STANDARD, AS INDICATED ABOVE IN ROW 4 OR 7. (Complete Certification 2)							
					This page is a contin	uation sheet.	

<u>TABLE 1</u> — F001, F002, F003, F004, F005 SPENT SOLVENT WASTES										
	CONSTITUENT	WASTEWATERS I	NON-WASTEWATERS	CONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS mg/L				
268.41(a)	Carbon disulfide	NA NA	4.8 0.75	Methanol	NA.	0.75				
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INCIN.	2-Nitropropane	(WEIOX or CHOXD) Ib CARBN; or INCIN	INCIN.				
268.43(a)	Acetone Benzene n-Butyl akohol Carbon disulfide Carbon tetrachloride Chlorobenzene Cresols (m and p-isomers) O-Cresol Cyclohexanone 1,2-Dichlorobenzene Ethyl acetate Ethyl benzene Ethyl ether Ischutanol Methanol Methylene chloride	0.28 0.070 5.6 0.014 0.057 0.057 0.77 0.11 0.36 0.088 0.34 0.057 0.12 5.6 5.6 0.089	160 3.7 2.6 MA 5.6 5.7 3.2 5.6 NA 6.2 33. 6.0 160 170 HA 33	Methylene chloride (Pharmaceutical industry wastewater sub-category) Methyl ethyl ketone Methyl isobutyl ketone Itirobenzene Pyridine Tetrachloroethylene Toluene 1,1,2-Trichloroethane 1,1,2-Trichloro-1,2,2,-Trifluorethane Trichloroftuoromethane Trichloroftuoromethane Xylene (Total)	0.44 0.28 0.14 0.068 0.014 0.056 0.08 0.054 0.030 0.057 0.054 0.02	36 33 14 16 5.6 28 5.6 7.6 28 5.6 33 28				
_	≥ 50 PPM PCBs (liquid)   ≥ 134 PPM NICKEL (liquid)   ≥ 130 PPM THALLIUM (liquid)   OTHER (Specify)   ≥ 1,000 PPM but < 10,000 PPM Appendix III HOCs and primarily water. (Only for wastes with no specific Subpart D HOC Treatment Standard)									
TABLE 3 — HAZARDOUS DEBRIS  This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45." The contaminants subject to treatment pursuant to 40 CFR 268.45(b) are:										
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		C	ERTIFIC	ATIONS	· · · · · · · · · · · · · · · · · · ·					
T certify unde that the lab pa not subject to	IDIX IV LAB PACK (ORGANOMETAL) or penalty of law that I personally examined and okcontains only the wastes specified in Appendoregulation under 40 CFR part 261. I am a submitting a false certification, including the	i am familiar with t dix IV to part 268 o ware that there a	the waste and r solid wastes re significant or Imprison-	2 APPENDIX V LAB PACK (ORGAN 1 certify under penaity of law that I personality through analysis and testing or thorough king contains only organic wastes specified in Appe to regulation under 40 CFR part 261. I am as submitting a false certification, including the p	y examined and owiedge of the v ndix V to part 26i ware that there i	vasie and that the lab pac B or sollid wasies not subject are significant penalties fo				
Signature	Da	te		Signature	Date _					
WASTE MEETING TREATMENT STANDARD(S) "I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or thorough knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA section 3004(d). I believe that the Information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."										
Signature	Da	le								
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0-0 12-13-93										
SIGNATURE X DATE DATE MOR 000551										

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

Stafe Form LPC 62 8/81 IL532-0610 EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039. Expires 9-30-94 (Form designed for use on elite (12-pitch) typewriter.) Information in the shaded areas is not required by Federal law, but is required by Illinois law. Manifest UNIFORM HAZARDOUS 1. Generator's US EPA ID No. 2. Page 1 Document No. WASTE MANIFEST CLD025415266 5035 by filmoss law. 3. Generator's Name and Mailing Address Location If Different Morey Coro. 2659 Wisconsin Ave., Downers Grave, IL 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 708-964-2300 5. Transporter 1 Company Name 6. US EPA ID Number <u>Environmental Waste Services</u> <u> 110984916197</u> 7. Transporter 2 Company Name US EPA ID Number <u>Ozinga Transportation Systems</u> 9. Designated Facility Name and Site Address US EPA ID Number 10. Clayton Chemical Co. 1 Mobile Ave. Sauget, IL 62201 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 9 Type Quantity Emergency Response G RQ Waste Flammable Liquid, N.O.S. (Isopropanbl Ε UN1993 Lead) II DY N (80001.D008) 0.0 Ε b. R A T C. O at 21///82-/660 and the National Hesponse Center R d. 15. Special Handling Instructions and Additional Information Emergency Contact # 708-964-2300 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date بو Printed/Typed Name Month Day Signature BD0/424-8802 or 5.3 17. Transporter 1 Acknowledgement of Receipt of Materials Date Printed/Typed Name Month Day Signature Year HAMIC 18. Transporter 2 Acknowledgement of Receipt of Date Materials Year Printed/Typed Name Month Day Signature 202/426-26 Discrepancy Indication Space Date 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Month Day Printed/Typed Name Yea Signature

This Agency is authorized to require, pursuant to Minois Revised Statute, 1989, Chapter 111. 1/2, Section 1004 and 1021, that this information be submitted to the Agency Failure to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation, Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

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TABLE	1 — F001, F002, F003, F004, F005	SPENT SOL	LVENT WAS	TES							
1	CONSTITUENT	WASTEWATERS D	non-wastewaters mg/L	CONSTITUENT	WASTEWATERS mg/L	NON-WASTEWATERS mg/L					
268.41(a)	Carbon disulfide	NA Na	4.8 0.75	Methanol	M	0.75					
268.42(a)	2-Ethoxyethanol	BIODG; or INCIN.	INCIN.	2-Nitropropane	(WETOX or CHOXD) Ib CARBH; or INCIN	INCIN.					
268.43(a) Table 2	Acetone										
IABLE 3	— HAZARDOUS DEBRIS  This hazardous debris is subject to the altern	olive treatment stan	adards of 40 CFR 2	68.45." The contaminants subject to treatment pur	suant to 40 CFR 26	8.45(b) are:					
·	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	C	ERTIFIC	ATIONS							
"I certify under that the lab par not subject to	IDIX IV LAB PACK (ORGANOMETAL er penalty of law that I personally examined an ack contains only the wastes specified in Appen o regulation under 40 CFR part 261. I am a submitting a false certification, including the	d am familiar with the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of the dix IV to part 268 of	the waste and or solid wastes are significant	2 APPENDIX V LAB PACK (ORGAI is certify under penalty of law that I personal through analysis and testing or thorough kn contains only organic wastes specified in Apple to regulation under 40 CFR part 261. I am a submitting a false certification, including the	ily examined and nowledge of the vendix V to part 26 nware that there	waste and that the lab pac 8 or solid wastes not subject are significant penalties for					
Signature	Oa	le		Signature	Date						
Teertify under	E MEETING TREATMENT STANDARD er penalty of law that I personally have examine e complies with the treatment standards specit mation I submitted is true, accurate and com tt."	d and am familiar v	268 Subpart Dar	nd all applicable prohibitions set forth in 40 CFF	R 268.32 or RCR/	<b>A section 3004(d). I believe</b>					
Signature	Da	le									
1 hereby ce	CERTIFICATION  ertify that all information supplied about the strong exist.*  HU My E	ove, and attach	ed, is comple	E HAZ MAT	Mca	<u> </u>					
					MOR O	ე0554					

## NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL — (Initial Waste Generator Only) —

I am supplying this notice and certification to Clayton Chemical Co in accordance with the requirements of regulations at 40 CFR 268.7 I have determined that the material described below is a restricted waste as defined in 40 Part CFR 268. I have indicated below the type of material which is covered by this notification. I have also indicated below the appropriate management required to comply with the prohibitions on land disposal for this material.

OCH ZIVIOI OI OI OI OI OI OI OI OI OI OI OI OI	ey Corp.			D. NUMBER ILL	<u> D  0   2   5     1</u>	Þ 12 16 161		
STREAM NO.L 515	/   MANIFEST	NO. LILY86	5033	Line No. 11a	11b11c	☐ 11d		
PROHIBITIONS AND RESTRICTIONS	Complete a column fo	or each waste number i	used to identify the wa	ste, as applicable, by c	ompleting blocks and (	checking (/) boxes.		
1- U.S. EPA Waste Number:	D001	D008						
2. Subcategory:	Ign. Liq. High TOC							
3- Treatability Group:  • Wastewater  • Non-Wastewater	×							
4. This waste is subject to a treatment standard under 40 CFR 268.41(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment		<b>X</b>	0	0		0		
5. This waste is subject to a treatment standard under 40 CFR 268.42(a): (Include Technology Codes)	SUBSINCIN RORGS	,						
6. This waste is subject to a treatment standard under 40 CFR 268.42(a) for wastes containing ≥1,000 ppm Appendix III HOCs for which specific treatment standards do not apply: (INCIN)								
7. This waste is subject to a treatment standard under 40 CFR 268.43(a):  • Waste Requires Treatment  • Waste Does Not Require Treatment	0		0	0	0	0		
8. This waste is subject to a prohibition under 40 CFR 268.32(a) or RCRA Sec. 3004(d): (California List prohibitions)								
9. Tals waste is a Lab Pack subject to the alternative treatment standard under 40 CFR 268.42(a): (INCIN)  • Appendix IV (organometallic lab pack)  • Appendix V (organic lab pack)								
10. This waste is hazardous debris subject to the alternative treatment standard under 40 CFR 268.45(a):								
11.(Reserved)								
12. This waste is subject to an exemption from treatment under:  • a national capacity variance  • a Case-by-case extension  • (reserved)		0		0				
The exemption expires ea:								
ADDITIONAL REQUIREMENTS	Check all that apply, an	d follow instructions.						
□ FD01—FD05 SPENT SOLVENT (Complete Table 1) □ "CALIFORNIA LIST" (Complete Table 2) □ HAZARDOUS DEBRIS (Complete Table 3) □ APPENDIX IV LAB PACK (Complete Certification 1) □ APPENDIX V LAB PACK (Complete Certification 2) □ F039 (Attach constituent list) □ WASTE MEETS A TREATMENT STANDARD, AS INDICATED ABOVE IN ROW 4 OR 7. (Complete Certification 2)								
					This page is a contin	uation sheet.		

State Form LPC 62 8/81 1L532-0610

FOR SHIPMENT OF HARDOUS AND SPECIAL WASTE EPA Form 8700-22 (Rev. 6-89)

E: FORM DESIGNED AD PRINT & LINES PER INCH. EPA FOR	m 8700-22 (Rev	7. <del>0-</del> 03)					
UNIFORM HAZARDOUS 1. Generator's US EPA ID No.	М	anilest	2. Page	Approved. O	ation in th	ne shaded	areas is n
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Ozinga Transportation Systems   ILD98206				88-62	57:Tru	nsporter's	Phone 7
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Sauget, IL 62201 ILD06691			11 . 11 . 2 . 3	THE PERSON	233		1000
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For the first transporter who will transport the waste, enter the company name, US EPA ID number. Himois EPA forst Special Waste Mauling (SWH) permit number, and telephone number where an authorized agent of the transporting usey to remained. on the event of an emergency.

[7,S,E,F) If applicable, enter the information requested for the second transporter who will transport the ways. If the two appropriates are used, use a second mention and in Section 15 of the second manifest enter "Continuation of Manifest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Examplest Exam (AMG,H) For the facility designated to receive the waste, enter company name, address, US EPA ID number, Baltois ERA can digit y code number, and telephone number where an authorized agent of the receiving facility may be reached. Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 T. For mosters and regulated as Hazardous Materials by DOT, enter a description of the wasta and the penaric name the written plus the planes "not harardous by DOT." If more than four works storoms are in a singular countries a continue to Enter the number of containers for each waste and the appropriate abbreviations for the type of containers Maria Sama or assunces DM Metal drams We come terms. ; i= DW Wooden drums Fiberboard or plastic drums DF -٠. CY Cylinders Damp tracks Torok cars TT Tank trucks TP Tanks portable Enter the total quantity (gallons or cubic yards) of each waste; round to nearest whole number, do not use decimals or fractions. Enter G if quantity is in gallons or Y if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons antillegrams in Section I. Enter the IFA 4 digit Hezardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered A literatural to the literature was realisticated by a market of a literatural to the literatural to the literatural to the literatural to the literatural to the literatural to the literatural to the literatural to the literatural to the literatural to the literatural to the literatural to the literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural literatural The state of the state of the state of the state of the material listed in item 11.

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ID DIRECTS IN FIGURE Rs. (17,18). The person accepting the waste on thehelf of the component must acknowledge commission of the purpose described on the Manifest by signing and entering the date of receipt UPCN DIRECT OF THE TO FACILITY. 114 in army 4 and live a remaining applies with the facility owner/operator. MISTRUCTIONS TO CHINERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES. The authorized transportation of the designated (or alternate) facility's owner or operator must note in Itom 19 any significant discipling and in 25 Th. Mirr. Code (25.172) between the waste described on the Manifest and the waste actually recieved to the facility. Reference of the nerson companing the waste on behalf of the owner or operator of the facility. That person must of interval of the waste by signing and entering the date of receipt. Paralle corp 8, sorth copy I to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery). Tublic enterior butfor for this Send comments regarding the burden estimate, including suggestions for reducing this laterian, to: Chief, Information Policy Tranch, PM-223, U.S. Environment Potection Agency, Co. M. Street S.V. Washington, DC collection of information is estimated to anguardo 27 minutes for gomerators, 15 minutes for manufactures and 20 minutes for manufactures. This includes time for 20480; and to the Office of Information and Degulatory Additional Office of reviewing instructions, gathering data, and complainty and reviewing the form

Management and Budget, Washington,

DC 20503.

P.O. BOX 19276

, SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

PL	EASE TYPE (Form designed for use on elite (12	-pitch) typewriter.)	EPA Form 8700-22 (	Rev. 9-88)	Form Appr	oved.OMB No. 20	050-0039
	UNIFORM HAZARDOUS	1. Generator's US EPA	ID No.	Manifest	2. Page 1		n the shaded areas is not
П	WASTE MAN!FEST	ILD025415	266	71944	_ of 1	by Illinois la	ederal law, but is required w.
11	3. Generator's Name and Mailing Address	Location If C	ifferent		A. Illinois Man	ifest Documer	nt Number
Н	Morey Corp.				IL 37	/1/41	Fee Paid, if Applicable
$\  \ $	2659 Wisconsin Ave.,	Downers Gr	ove. IL 60	515	B. Illinois		
11		4-2300 6Q			Generator a	04.30	305,029, , ,
П	5. Transporter 1 Company Name	6.	US EPA ID Number		C. Illinois Tra		2702
Н	Environmental Waste Ser	vices	ILD9847811				Transporter's Phone
П	7. Transporter 2 Company Name	8.	US EPA ID Number		E. Illinois Tran		1070
П	Ozinga Transportation S	vetome   T	LD982067175	ı			Transporter's Phone
П	9. Designated Facility Name and Site Address	10.	US EPA ID Number		G. Hilinolis		Transporter a Triono
11	Clayton Chemical Co.		00 21 71 10 114111001		Escilibre		531210004
П	l Mobile Ave.				H. Facility's P		531 ₂ 30004
Н	Sauget, IL 62201	•	_ILD0669183		618)		
Н	11. US DOT Description (Including Proper Shipp	ing Name Hazard Clas		12. Conta		3. 14	· <del></del>
П	11. 03 DOT Description (including Proper Shipp	ing Name, nazaro Cias	is, and it is is interior	1 .	To	otal Uni	Westo No
G	a.			No.	Type Qua	intity Wt/V	EPA HW Number
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R	b.			) )	1	1	XX
A			j		ķ		Authorization Number
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1	d				ļ		EPA HW Number
1				}	]		Authorization Number
1	J. Additional Descriptions for Materials Listed Ab				يسلن	444.	es Listed Above
	a. Flux (5157) D00	D008			1 = Gallor	is 2 =	· Cubic Yards
	16. GENERATOR'S CERTIFICATION: I hereby declare to proper shipping name and are classified, packed, man according to applicable international and national got if it am a large quantity generator, I certify that I has aconomically practicable and that I have selected to future threat to human health and the environment; the best waste management method that is available in Printed/Typed Name	hat the contents of this contents and labeled, and are vernment regulations. we a program in place to be practicable method of OR, if I am a small quant o me and that I can afford	nsignment are fully and ac in all respects in proper co reduce the volume and to treatment, storage, or dis ity generator, I have made	ndition for tr xicity of was posal current	ansport by highy te generated to ( ly available to m	he degree I ha e which minimi	zes the present and
<u> </u>	PHIL MYER		the	<u> </u>			11 1694
T	17. Transporter 1 Acknowledgement of Receipt of						Date
TRANS	Printed/Typed Name THOMAS LAC	PEIS	ignature /	/n <u>~</u>	Lan	hust	Month Day Year
P	77.01.01	Matarials	1/1001.0	7	20	in y	1 1 1 10 10 14
O R T	18. Transporter 2 Acknowledgement of Receipt of		A			<u></u>	Month Osy Year
E	Printed/Typed Name	<i>I</i> ]s	ignature	` 11. 1	14/	/	Month gay Year
<b>A</b>	10 Disconnect Indication Server		year	July 1			- 1110
FACIL	19. Discrepancy Indication Space		•			lian 10	T. Boto
Ţ	20. Facility Owner or Operator: Certification of re Printed/Typed Name			namiest ex	Pohr #2000ed I		Month Day Year
4	rimew ryped Name		ignature		4		11 1995
يـ	JAMES H	ANBY	Jun-	7	F Y0~	$\longrightarrow$	- // / / / 🔍
1	This Agency is authorized to require, pursuant to Minois Revised Statutes, ( or operator of not to exceed \$25,000 per day of violation, Faisification of this	repter 111% Section 21, that this	entormation be submitted to the A	gency. Pailure 10	provide the informati	ON THE PROPERTY OF BELLEVIEW	Air Present offender ring Octuber

The Illinois Uniform Manifest must be used for all shipments of hazardous waste stored, disposed of, treated, or reclaimed in Illinois; and for all shipments originating in Illihois and destined for states that do not print and supply the form. For shipments not originating in Illinois, if the ... generator's state requires copies of the manifest, a photocopy of part I should be used.

INSTRUCTIONS TO GENERATORS (Please type)

Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest ic g. (00001) by the generator.

Enter total number of pages comprising this Manifest. (2)

- Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right (3)of mailing address.
- Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an (4) emergency.

Enter the generator's Illinois EPA ten digit identification number.

- For the first transporter who will transport the waste, enter the company name, US EPA 1D number, Illinois EPA four digit Special (5.6,C.D) Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- If applicable, enter the information requested for the second transporter who will transport the waste. If more than two (7,8,E,F) transporters are used, use a second manifest and in Section 15 of the second manifest enter "Continuation of Manifest Number xxxxxxxx" from Section A).

(9,10,G,H) For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility ende number, and telephone number where an authorized agent of the receiving facility may be reached.

Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT." If more than four waste streams are in a shipment, complete a second manifest.

Enter the number of containers for each waste and the appropriate abbreviation for the type of container: (12)

CM = Metal Boxes or roll-offs DM =Metal drums CW =Wooden boxes DW = Wooden drums

CF = Fiberboard or plastic boxes DF Fiberboard or plastic drums

BA = Burlap, cloth, paper, or plastic bags CY = Cylinders Dump trucks TT = Tank trucks Tank cars TP Tanks portable TC

- Enter the total quantity (gallons or cubic yards) of each waste; round to nearest whole number, do not use decimals or fractions. (13)
- (14)Enter 1 if quantity is in gallons or 2 if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons, or kilograms in Section J.
- Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered - - other numbers should be listed in Section J. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies) (leave blank for waste going out of Illinois).

If needed, enter additional description or information/instructions for the material listed in item 11. (J,K)

- (15) If needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment, storage, or disposal outside the jurisdiction of the United States in this space.
- The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT.

INSTRUCTIONS TO TRANSPORTER: (17,18)The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt. UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner/operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.

Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

Retain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

collection of information is estimated to average: 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the

Public reporting burden for this Send comments regarding the burden estimate, including suggestions for reducing this burden, to; Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M. Street SW., Washington, DC 20480; and to the Office of Information and Regulatory Affairs. Office of Management and Budget, Washington, DC 20503.

State Form LPC 52 8/81 IL:

JI 532-0610

FOR SHIPMENT OF HARDOUS AND SPECIAL WASTE

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH. EPA Form 8700-22 (Rev. 8-89) Form Approved. OMB No. 2050-0039, Expires 9-30-92 Manifest Document No. 1. Generator's US EPA ID No. 2. Page 1. Information in the shaded areas is not UNIFORM HAZARDOUS required by Federal law, but is required by illinois Law. WASTE MANIFEST ILD025415266 72663 Case 3. Generator's Name and Mailing Address Location If Different: A. Illinois Manifest Document Number Fee Paid, If al 4672663 Applicable: Morey Corp. 0 Minois (Caparator's 10/430805029 2659 Wisconsin Ave., Downers Grove, IL 60515 4. * 24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS * 708-964-2300 5. Transporter 1 Company Name US EPA ID Number C. Illinois Transporter's ID 12,702 ILD984781146 D. G70 B B B 7 C S F Transporter's Phone C Environmental Waste Services 7. Transporter 2 Company Name US EPA ID Number WWW. WILDAU ILD982067175 F (708388-625 Transporter's Phone Ozinga Transportation Systems 9. Designated Facility Name and Site Address 10 US EPA ID Number P. 11691210004 Clayton Chemical Co. H. Facility's Phone; 1 Mobile Ave. 1618 271-046 ILD066918327 Sauget, IL 62201 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Total Unit Weste No. 9 Type No. Quantity Emergency RQ Waste Paint Related Material £  $\infty$ Flammable Liquid NA1263(D001.F002) N 0000D9 R RQ Waste Paint Related Material රර ව Flammable Liquid NA1263(D001) RECEIVED ٥ C. R <u>act 27 1992</u> đ. 217/782-7860 and the National Response THE MOREY CORP J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes In Item # 14 Listed Above a. Epoky Resin (5770) FUDY FOUR REULS DOUBLE. - Cubic Yards 15. Special Handling Instructions and Additional Information Emergency Contact # 708-964-2300 18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, arked, and labeled, and are in proper condition for transport by hig according to applie ble international and national government regulations. respects in proper condition for transport by highway at I have a program in place. The suice the volume and toxicity of waste generated to the degree I have determined selected the practicable method. In the straight of the process currently available to me which minimizes the present informent; OR, If I am a straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of the straight of If I am a large quantity generator, I certify gat I have a program in place to be economically practicable and that I was selected the practicable m and future there to human health and the selected the practicable m and select the best waste management metrics that is available to me and the S S Printed / Typed Name Signature Month Yea 17. Transporter 1 Acknowledgement of Receipt of Materials Date 800/424-8802 Printed / Typed Name Signature Month Day HOMA! t i O Transporter 2 Acknowledgement of Receipt of Materia Date Pririted / Typed Name Signature Month Day Yes THO BE BUIL Q 19. Discrepancy Indication Space 2U2/420-20 Date 20. Facility Owner or Operator: Certification of receipt of hardous materials covered by this manifest except as noted in item 19. Printed / Typed Name Signature Qay This Agency is authorized to require, pursuent to Minois Revised Statuts, 189, Chapter 111 1/2, Se this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Manag and 1021, that this in

Management and Budgel, Washington,

DC 20503.

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Sector and let all distincts originating in Ellinois and destined for states that do not print and supply the form. PINTY (Fotor in Fig. 1) and the states that do not print and supply the form. PINTY (Fotor in Fig. 2) and the manifest. So

P.O. BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 State Form LPC 62 8/81 IL532-0610

MAY - 4 1992

<u>PL</u>	EASE TYPE (Form designed for use on elite (12		A Form 8700-22 (	Rev. 9-68)	Form	Approved.OMB I	10 2050-0039	
4	UNIFORM HAZARBOUS WASTE MANIFEST	1. Generator's US EPA ID N ILD025415266	. Doo	Manifest cument No. 71674	2. Page of 1		ion in the shaded areas by Federal law, but is re is law.	
	3. Generator's Name and Mailing Address	Location If Differ			A. Illinois	Manifest Docu	ment Number Fee P	aid, if
$\  \ $	Morey Corp. 2659 Wisconsin Ave., D	owners Grove,	IL 60515	5	B. Illinois Genera	<del>÷</del>	Appli Appli	cable
$\  \ $	4. Generator's Phone ( 708 ) 964 5. Transporter 1 Company Name	-2300	S EPA ID Number	<del></del>	ID .		30305029	
П	Environmental Waste Se		84781146				5 Transporter's P	702
П	7. Transporter 2 Company Name		S EPA ID Number			Transporter's		070
11	Ozinga Transportation	SystemsILD	982067175	j		<u>-</u>	7 Transporter's P	
П	9. Designated Facility Name and Site Address		S EPA ID Number		G. Illinois		· · · · · · · · · · · · · · · · · · ·	
	Clayton Chemical Co.					1116	31210004	
П	1 Mobile Ave	•		. 1	H. Facility		,	- 1
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	J. Additional Descriptions for Materials Listed Ab	iove	<del></del>		K. Handlin	a Codes for	Wastes Listed Above	,—
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	15. Special Handling Instructions and Additional	Information						
	Emergency Contact #	708-964-2300						
	16. GENERATOR'S CERTIFICATION: I hereby declare proper shipping name and are classified, packed, ma							
١	according to applicable international and national go	overnment regulations.						Ě
1	If I am a large quantity generator, I certify that I he economically practicable and that I have selected to							
1	future threat to human health and the environment the best waste management method that is available		nerator, I have made	a good fait	h effort to m	ilnimize my wa:	ite gen <u>eration and sele</u> Date	
1	Printed/Typed Name	Signa	ture	$\Lambda_{\Lambda}$			Month Day	Year
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ě	18. Transporter 2 Acknowledgement of Receipt o	f Materials					Date	` ~ !
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_	19. Discrepancy Indication Space							
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L	20. Facility Owner or Operator: Certification of re	eceipt of hazardous material	s covered by this r	nanifest ex	cept as not	ted in item 19	Date	
T Y	Printed/Typed Name	Signa		1	1		Month Day	Year
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1	This Agency is authorized to require, pursuant to Illinois Revised Statutes,	Chapter 171% Section 21, that this inform	ation to glibmitted to the A	gency. Failure t	provide the inf	ormeties stay result	in a civil penalty against the o	ADDOC!

The Illinois Uniform Manifest must be used for all shipments of hazardous wastostored, disposed of, treated, or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part I should be used.

INSTRUCTIONS TO GENERATORS (Please type)

(1) Enter generator's USFPN twelve digit identification number and the unique five digit document number assigned to this Manifest (e.g. 00001) by the generator.

(2) . Enter total number of pages comprising this Manifest.

(3) Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.

(4) Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency =

(B) I neer the generator's Illinois EPA ten digit identification number.

(5.6.C.D) For the first transporter who will transport the waste, enter the company name, US EPA ID number, Illinois EPA four digit Special Waste Hauling (5.WH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency

(7,8,8,8) If applicable error the information requested for the second transporter who will transport the waste. If more than two transporters are used, use a second manifest and in Section 15 of the second manifest enter "Continuation of Manifest Number xxxxxxx" tree Section A).

(9.19 (6.4) For the facility designated to receive the waste, enter company name, address, US EPA ID number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.

(11) Enter the US DOT Proper Shipping Name, Hazard Class, and ID number (NA UN number) for each waste as identified in 40 CFR 171 through 177 For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT," If more than four waste streams are in a shipment, complete a second marries.

(12) I later the number of combiners for each waste and the appropriate abbreviation for the tyre of container:

CM : Metal Boxes or roll offs DM = Metal drums
CW = Wooden boxes DW = Wooden drut

CW = Wooden boxes DW = Wooden drums
CF = Fiberboard or plastic boxes DF = Fiberboard or plastic drums

RA = Burlap, cloth, paper, or plastic bags

CY = Cylinders

TT = Tank trucks

TO = Tank cars

TP = Tanks portable

(i3) Enter the total quantity (gallons or cubic yards) of each waste; round to nearest whole number, do not use decimals or fractions.

[14] Enter I if quantity is in gollons or 2 if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons, or kilograms in Section J

(i) Finer the EPA 4 digit Hazardons Waste Number: it waste is a maxture of listed and characteristic wastes, the listed waste must be entered -- other numbers bound be listed in Section 2. Enter the Wineis FPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies) (leave blank for waste going out of Illinois).

(1) K) If needed, enter additional association or information instructions for the material fisted in item 11.

((a) If needed, indicate special transportation, treatment, storage, or dispose linformation, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment, storage, or disposal outside the jurisdiction of the United States in this space.

(16) The generator must and, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT.

INSTRUCTIONS TO TRANSPORTER: (17.18) The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt. UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility on per operator.

INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

(19) The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant description (as defined in 35 III. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, b, C, or D.

(20) Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

Retain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form.

Send comments regarding the burden estimate, including suggestions for reducing this burden, to; Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and to the Office of Information and Regulatory Affairs. Office of Management and Budget, Washington, DC 20503.

#### , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

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This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111% Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center,

The Illinois Uniform Manifest must be used for all shipments of hazardous waste stored, disposed of, treated, or reclaimed in Illinois; and for all shipments originating in Illinois and destined for states that do not print and supply the form. For shipments not originating in Illinois, if the generator's state requires copies of the manifest, a photocopy of part I should be used.

#### INSTRUCTIONS TO GENERATORS (Please type)

(1) Enter generator's USEPA twelve digit identification number and the unique five digit document number assigned to this Manifest (e.g. 00001) by the generator.

(2) Enter total number of pages comprising this Manifest.

- (3) Enter generator's name and mailing address. If location of waste generation is different from mailing address, enter location to the right of mailing address.
- (4) Enter telephone number where an authorized agent of the generator, who has knowledge of the waste, may be reached in the event of an emergency.

(B) Enter the generator's Illinois EPA ten digit identification number.

- (5,6,C,D) For the first transporter who will transport the waste, enter the company name, US EPA 1D number, Illinois EPA four digit Special Waste Hauling (SWH) permit number, and telephone number where an authorized agent of the transporter may be reached in the event of an emergency.
- (7,8,E,F) If applicable, enter the information requested for the second transporter who will transport the waste. If more than two transporters are used, use a second manifest and in Section 15 of the second manifest enter "Continuation of Manifest Number xxxxxxx" from Section A).
- (9,10,G,H) For the facility designated to receive the waste, enter company name, address, US EPA 1D number, Illinois EPA ten digit facility code number, and telephone number where an authorized agent of the receiving facility may be reached.
- (11) Enter the US DOT Proper Shipping Name, Hazard Class, and 1D number (NA/UN number) for each waste as identified in 49 CFR 171 through 177. For wastes not regulated as Hazardous Materials by DOT, enter a description of the waste and the generic name of the waste, plus the phrase "not hazardous by DOT," If more than four waste streams are in a shipment, complete a second manifest.

(12) Enter the number of containers for each waste and the appropriate abbreviation for the type of container:

CM = Metal Boxes or roll-offs
CW = Wooden boxes

DM = Metal drums
DW = Wooden drums

CF = Fiberboard or plastic boxes DF = Fiberboard or plastic drums

BA = Burlap, cloth, paper, or plastic bags

CY = Cylinders

DT = Dump trucks

TC = Tank cars

TP = Tanks portable

- [13] Enter the total quantity (gallons or cubic yards) of each waste; round to nearest whole number, do not use decimals or fractions.
- (14) Finter 1 if quantity is in gallons or 2 if quantity is in cubic yards. No other unit is to be used. To track weight if desired, enter pounds, tons, or kilograms in Section J.
- (1) Enter the EPA 4 digit Hazardous Waste Number: if waste is a mixture of listed and characteristic wastes, the listed waste must be entered -- other numbers should be listed in Section J. Enter the Illinois EPA six digit waste stream permit (authorization) number for the waste stream (these numbers are specific for each waste stream and companies) (leave blank for waste going out of Illinois).

(J,K)—If needed, enter additional description or information instructions for the material listed in item 11.

- (15) It needed, indicate special transportation, treatment, storage, or disposal information, or Bill of Lading information. For international shipments, generators must enter the point of departure (City and State) for shipments destined for treatment, storage, or disposal outside the jurisdiction of the United States in this space.
- (16) The generator must read, sign (by hand), and date the certification statement. If a mode other than highway is used, the word "highway" should be lined out and the appropriate mode (rail, water, or air) inserted in the space below. If another mode in addition to highway is used, enter the appropriate additional mode.

GENERATOR: RETAIN COPY 6 AND MAIL COPY 5 TO IEPA WITHIN 2 DAYS OF THE SHIPMENT.

INSTRUCTIONS TO TRANSPORTER: (17,18) The person accepting the waste on behalf of the transporter must acknowledge acceptance of the waste described on the Manifest by signing and entering the date of receipt. UPON DELIVERY OF WASTE TO FACILITY, retain copy 4 and leave remaining copies with the facility owner, operator.

#### INSTRUCTIONS TO OWNERS AND OPERATORS OF TREATMENT, STORAGE, OR DISPOSAL FACILITIES:

- The authorized representative of the designated (or alternate) facility's owner or operator must note in Item 19 any significant discrepancy (as defined in 35 Ill. Adm. Code 725.172) between the waste described on the Manifest and the waste actually received at the facility. Reference the discrepancy by line A, B, C, or D.
- (20) Print or type name of the person accepting the waste on behalf of the owner or operator of the facility. That person must acknowledge acceptance of the waste by signing and entering the date of receipt.

Retain copy 3, send copy 1 to the generator, and send copy 2 to Illinois EPA (within 30 days of the delivery).

Public reporting burden for this collection of information is estimated to average 37 minutes for generators, 15 minutes for transporters, and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form.

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Send comments regarding the burden estimate, including suggestions for reducing this burden, to; Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20480; and to the Office of Information and Regulatory Affairs. Office of Management and Budget, Washington, DC 20503.

# NOTIFICATION FOR WASTES RESTRICTED FROM LAND DISPOSAL — (Initial Waste Generator Only)—

I am supplying this notice and certification to C determined that the material described below is by this notification. I have also indicated below	layton Chemical( a restricted waste as defined in	Co in accordance will 40 Part CFR 268. The equired to comply with	ith the requirement laye indicated below hithe prohibulons	<ul> <li>of regulations</li> <li>the type of ma</li> </ul>	at 40 CFR 268. Ierial which is (	7 lhi cover
GENERATOR'S NAME Morey Co.		·	NUMBER LIL			
STREAM NO. 15157.	T/ 37		,			1-4
STREAM NOLUTION	MANIFEST NO. LT COT		Line No. 🔯 11a	L 116 L	116 🗆 114	
	WASTE IDE	NTIFICATION				
WASTE TREATABILITY GROUP	` 		•			
☐ Washwater	WASTE NO. 1. DO01	2. D008	3.	4.	5.	<del></del>
	SUBCATEGORY Ign. L	iq.		,		
MATERIAL TYPE	· · · · · · · ·		<del></del>		<del></del>	
F001-F005 Speni Solveni (Complete Table	1) F039 (A)	tach Constituent List)	Пт	ıklamia List" (Co	malata Tabla 2	١.
Appendix IV/Appendix V Leb Pack (Atlach I	i'	non-liquid, non-weste			•	•
Di Other	for which	specific Subpert D Hi e code INCIN)				
RE	STRICTED WASTE F	EQUIRING TR	EATMENT	· · · · · · · · · · · · · · · · · · ·	:	
•				٠.		
L	a appropriate treatment standard	ny el modishinon po (a)t	Part 2:18. This wa ol(4), as indicated b	ste, identified ab lelow.	oove, may not b	w land
(a) Treatment standards expresse	•		40 CFR 268.41(a)			
(b) Treatment standards expresse	id as specific technologics, as lo		•			
(The appropriate 5-characte F. S. U	er code(s) are indicated tallow)					
		سسا _ لـــــا درور محمود مورد			J	
(c) The alternative treatment stand		• • •	INCIN) / LAB PACK (ORG	ANICS		
APPENDIX IV LAB PACK (ORGANOMETA "I carity under penalty of law that I personally have examine	<del>-</del>		ly of law that I persona	-	and am familiar wi	in the w
that the Lab pack contains only the wastes specified in Autitiot subject to regulation under 40 GFR part 261. I am awa	windux IV to part 268 or solid mastes		lesting or through know recited in Appendix V t			
iui submitting a laise centification, including the possibilit		under 40 CFR Part 20	<ol> <li>I am aware that the</li> </ol>	we are significant p		
		carnication, including	) the possibility of fine	or impressment."		
Signature	_ Date	Signature	<del> </del>	<del></del>	_ Dew	
. (d) Treatment standards expresse (e) Waste specific profebilion leve						
RESTRIC	TED WASTE NOT REC	QUIRING FURT	HER TREAT	MENT		
***************************************				******	•	
11. The above waste, as generated, meet The material, described above, as get	is the treatment standar is unde neraled, meets the following tre	r 40 CFR Part 268, S atmont standard(s).	ubpert D.			
(a) Treatment standards express	ed as concentrations in a waste	uxtract, as located in	40 CFR 268.41(a)			
(b) Treatment standards expresse	ed as concuntrations in the wast	ມ, as located in 40 Cf	R 268.43(a)			
I have attached waste analysis data upon which					•	•
"I certify under penalty of law that I personally have exam the waste complies with the treatment standards specifie into mation I submitted is true, accurate and complete. I	d in 40 CHR Part 258 Subpart D and al	i applicable profebitions s	at forth in 40 CFR268.	32 or RCRA suction	1 3004(d).   Deliev	e that th
Signature	Daw			<del></del>		
RESTRICTED W	VASTE SUBJECT TO	EXTENSION, P	ETITION OR	VARIANCE		<del></del>
111.  The waste identified is currently not a	ubinat ta a tanas— at ata adi. 44		12. [3	3.  4.	15 1	مندا
(a) A nationwide capacity variance					الــــــــــــــــــــــــــــــــــــ	and.
(b) A case-by-case extension und		•				
(c) A no-migration public under	40 CFR 268.6	-				
The variance, extension or petition indicate	id abovo expires on the followin	g auto 1	2 13.	14   5		

robel  rockloride  rockloride  rockloride  rockloride	5.0 1.05 0.05 0.15	0.59 5.0 • 4.81 0.96 0.05 0.75	Methyleae chloride	0.20 0.05 > 0.05 0.64 1.12	0.96 0.75 0.33 0.125
sudido	1.05 0.05 0.15 2.82	4.81 0.96 0.05	Methyl isobutyl ketone	0.05 0.66	0.33 0.125
erochloride	0.05 0.15 2.82	0.96 0.05	Natrobenzane	0.66	0.125
and crecylic pool	0.15 2.82	0.05	Natrobenzane	4.00	
and cresyle poly	2.82	1 1		1.12	การ
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1999		1 443	Tetrachlargeshylene	0.079	0.05
	0.125	0.75	Igluene	1.12	0.33
4 904L 674		0.125	1,1,1-fricht eetvane	1.05	0.41
<b></b>		0.75	1,1,2-Trichlore-1,2,2,-Triflugrathane	1.05	0.96
Less	0.05	0.053			0.091
ſ	0.05	0.75	Irichloroflueremethane	0.05	0.96
<b></b>	5.0	5.0	Xyane	0.05 .	0.15
	0.25	0.75	<del></del> ·	ł	
<b>(2004)</b>	PIODE; or IN(IN.	INCIN	2-Nur-up-rapane	IS CAREN; or INCIN	INCH
	melt "	· my/L	* • · · · ·	mg/l	<b>a</b> ∉/L
dur garderne	0.030	7.6	Mothylese diforide	0.44	NA.
	0.070	17	(Pharmacoulical industry wastewater Sub-cutegory)	_	
- d		0.05 d	0.05 0.75 al	0.05   0.75   Trickloraflyeramethane	0.05   0.75   Tricklorallus ansetbane   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.





August 8, 1997

MOREY CORP. 2659 WISCONSIN AVE. DOWNERS GROVE, IL 60515 ATTN:PHIL MEYER GEORGE 365-1100

Re: Waste Acceptability at Michigan Recovery Systems, Inc.

EPA Identification number: MID 060 975 844

Dear Sir/Madame:

This letter acknowledges that Michigan Recovery Systems, Inc. has the appropriate permits, and the acceptability of the waste described below for treatment/storage at our Romulus, Michigan facility.

1. General Description:

**BLACO - TRON TMS PLUS** 

2. EPA/MDNR Waste Codes:

007L

Secondary Codes:

3. Generator EPA identification #:

ILD 025 415 266

4. Approval Number:

071857 D

This approval is based upon information supplied to us by your company. As the Generator, you are responsible for the accuracy of the characterization information. If there are any errors or changes to this information, please notify us immediately.

Although your waste has been technically approved, you or your agent (listed below) must contact Michigan Recovery Systems, Inc. to arrange the scheduling of your waste shipment. ALL WASTE SHIPMENTS MUST BE SCHEDULED PRIOR TO SHIPPING.

If you have any questions, please do not hesitate to contact us.

Patrick M. Sullivan General Manager

CC: ENVIRONMENTAL WASTE SERVICES

MOR 000568

36345 Van Born Road . Romulus, MI 48174





May 22, 1998

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SVCS.

Fax: (630) 365-3112

PHIL MEYER MOREY CORP 2659 WISCONSIN AVENUE DOWNERS GROVE, IL 60515

This Generator Approval Notification acknowledges the acceptability of waste material(s) into Michigan Recovery Systems, Inc. (MRSI) and ensures that this facility has the appropriate permit issued by federal and state regulatory agencies to properly transport, treat, and/or disposal of the waste material(s).

Approval Number Waste Common Name

D15098D ACCELERATOR

The Approval(s) listed on the following page(s) are based upon information supplied to MRSI by your company. The generator is ultimately responsible for the accuracy and completeness of the characterization information provided and other information that was provided during the technical approval process. The generator must notify the MRSI Approvals Department immediately upon knowledge of any changes to this information.

The Approval(s) will expire on the date(s) noted on the following page(s). Any new Approvals obtained from MRSI on future business will be valid for a period of one (1) year from the date of issuance. Within 30 days of the Approval Expiration Date, you will be notified of the requirements for recertification.



company

May 22, 1998

5PL

04/15/99

Approved Container:

Approval Expires On:

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SVCS.

Fax: (630) 365-3112

Approval Number:

Generator Name:

Waste Common Name: Generator EPA ID #:

Primary Waste Code: Secondary Waste Code(s):

**Generator Comments:** 

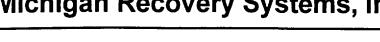
D15098D

MOREY CORP

ACCELERATOR ILD025415266

D001

NONE



company

May 20, 1998

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SVCS.

Fax: (630) 365-3112

**Approval Number:** 

D15198L

Generator Name:

**MOREY CORP** 

Waste Common Name:

MTS 001 TITRATION SOLUTION

Generator EPA ID #:

ILD025415266

Approved Container: Approval Expires On: 5PL 04/15/99

Primary Waste Code:

D002 NONE

Secondary Waste Code(s): **Generator Comments:** 





May 20, 1998

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SVCS.

Fax: (630) 365-3112

PHIL MEYER MOREY CORP 2659 WISCONSIN AVENUE DOWNERS GROVE, IL 60515

This Generator Approval Notification acknowledges the acceptability of waste material(s) into Michigan Recovery Systems, Inc. (MRSI) and ensures that this facility has the appropriate permit issued by federal and state regulatory agencies to properly transport, treat, and/or disposal of the waste material(s).

Approval Number Waste

Waste Common Name

D15498L

**ECCOSTRIP 93** 

The Approval(s) listed on the following page(s) are based upon information supplied to MRSI by your company. The generator is ultimately responsible for the accuracy and completeness of the characterization information provided and other information that was provided during the technical approval process. The generator must notify the MRSI Approvals Department immediately upon knowledge of any changes to this information.

The Approval(s) will expire on the date(s) noted on the following page(s). Any new Approvals obtained from MRSI on future business will be valid for a period of one (1) year from the date of issuance. Within 30 days of the Approval Expiration Date, you will be notified of the requirements for recertification.



May 20, 1998

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SVCS.

Fax: (630) 365-3112

Approval Number:

D15498L

Generator Name: Waste Common Name: MOREY CORP ECCOSTRIP 93

Generator EPA ID #:

ILD025415266

Primary Waste Code: Secondary Waste Code(s): 029L NONE

**Generator Comments:** 

Approved Container: Approval Expires On: 5PL

04/16/99



Generator Approval Notification

September 21, 2000

Customer: ENVIRONMENTAL WASTE SRVCS.

Fax: (630) 365-3112

FRED PFEIFFER THE MOREY CORP. 100 MOREY DRIVE WOODRIDGE, IL 60517

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the EQ environmental protection facility identified below and ensures that this facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or dispose of the waste material(s).

EQ FACILITY: Michigan Disposal Waste Treatment Plant (MID000724831)

49350 North I-94 Service Drive, Belleville, Michigan 48111

Approval Number: 092000MCC

Generator EPA ID #: ILG000060910

Approved Container: DRUM Expires On: 9/20/2001

Waste Common Name: WASTE GREASE

Comments:

Primary Waste Code: 000M

The Approval(s) listed above are based upon characterization information supplied to EQ by the Customer and the generator (if other than the Customer). The Customer is ultimately responsible for the accuracy and completeness of all such information, whether provided by the Customer or the generator. The Customer must notify the EQ Resource Team immediatly upon knowledge of any changes to this information. This Approval and all wastes which are transported, delivered, or tendered to EQ under this Approval shall be subject to the attached Standard Terms and Conditions.

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from EQ on future business will be valid for a period of one (1) year from the date of issuance. Within 60 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

If you have any questions, please call us toll free at 1-800-KWALITY (592-5489)

RECEIVED

YOUR BUSINESS. OUR SOLUTIONS. A PRODUCTIVE PARTNERSHIP,

SEP 2 5 2000

MOR 000574

THE MOREY CORP.

49350 North I-94 Service Drive, Belleville, Michigan 48111 - 1-800-592-5489

Rev. 1/99 Page 1 of 1 Form 1028

#### STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ.—The Environmental Custiny Company and/or its member companies (narrantee "EQ") related to or associated with Delivered Waste, as herein defined, shall be powered by the following Brandard Terms and Conditions in addition to the terms and conditions contained in any Waste Constitution Report, Customer Approval Contained on the terms and conditions, Generator Approval Hollicetion, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its destings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be passed stricten.

#### The following desirations shall apply for purposes of this Agreement:

*Acceptable Waste* shall mean any assurtious waste, as defined under applicable State or testant law, determined by EQ as acceptable for trasment and/or deposal in accordance with the Appearant.

"Dailvared Waster" shall mean all wasters (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has emerged for the transport, delivery or tendered to EQ under a Credit Agreement between the Customer and ED.

"Non-Conforming Waster" shall mean waster that (a) are not in accordance in all meterial respects with the warrantes, describions, specifications or infections stated in the Wester Characterization Report and this Agreement; (b) have constituents or components of a type or concentration not specifically identified, in the Waste Characterization Report (i) which increase the nature or extent of the basen and risk undertaken by EQ in treating analyze disposery of the waste, or (ii) for whose treatment analyze disposer a permitted, or (iii) which increase the cost of treatment analyze disposer or waste beyond that specified in EQ's price profe; or (c) are not properly packaged, inheled, described, or placerted, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agancy regulations.

#### Control of Operations

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal technic of EQ receiving Delivered Wastes under the Agreement (personal).

"Wester Management Facility"), including, without imitation, maintaining EQ's destred volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

#### Identification of Wests.

For each weath material to be transported, delivered, or tendered to EO under this Agreement, the Customer shall provide, or cause to be provided, to EO a representative sample of the waste material, which description shall conform with any and all puddelines for waste material, which description shall conform with any and all puddelines for waste acceptance provided by EO. On the basis of EO's analysis of such representative sample of the waste material and such Waste Characterization Report, EO will destinate wastellar such wastes are Acceptable Wastes. EO does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EO reserves the light to the decline to pransport, and such expression and promptly funds to EO any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly them EO of any change in the characterization of the waste material which becomes more to the Customer subsequent to the

#### Non-Conforming Waste

in the event that EO at any line discovers that any Delivered Wasts is Non-Contoming Wasts, EO may reject or revoke its acceptance of the Non-Contoming Wasts. The Customer shall have seven (7) days to direct an elegandive level manner of disposition of the wasts, unless it is necessary by reason of lew or otherwise to now the Non-Contoming Wasts prior to explaint of the seven (7) day period. If the Customer shall reinforce, and the Customer shall reinforce a reinforce and expenses incurred by EO in connection with the receipt, handling, sampling, innelyses, transportation and return to the Customer of such Non-Contoming Wasts to the Customer, the Customer shall reinforce EO for eit costs, of any type or nature whetherever, incurred by EO and because such Delivered Wasts were Non-Contoming Wasts (including, but not invited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Contoming Wasts (including, but not invited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Contoming Wasts (including, but not invited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Contoming Wasts, in companied and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and chaptering of any Non-Contoming Wasts).

#### Customer Warranty - Acceptable Waster.

All Delivered Wesses shall be Acceptable Westes and shall conform in all material respects to the description and specifications contained in the Weste Crescusivation Report. The internation set forth in this Weste Characterization Report or any manifest, piscend or label associated with any Delivered Westes, or otherwise represented by the Customer or the penerator (if other than the Customer or the penerator (if other than the

#### Customer Warranty - Title to Wastas.

Either the Customer or the generator (it other than the Customer) shall hold clear title, trac of any all bens, claims, encumbrances, and charges to Delivered Weste until such waste is excepted by

#### . Customer Werrenty - Completos with Laws.

The Constraint shall comply with all applicable tederal, state and local environmental statutes, regulators, and other governmental representation, are wall as discover issued by ED from line to line, governmental representation, treatment entitor disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, contains instance, placeting and labeling requirements.

Constormer Warrante - Underline Information.

If the Construet receives intermeted that Delivered Waste or other inscendous warm described in the Waste Characterization Report, or some component of such waste, presents or may present a factor of that to passers, property or the environment which was not disclosed to EO, or if the Continuer or panerator (if other than the Customer) has abanded the process by which such waste results, the Customer shall promptly report such intermetion to EO in writing.

#### **Diretomer intermity**

The Customer shall indentify, detend and hold humbers ED, and its affiliated or related companies, and all of their respective present or internations, directors, phasinishes, employees and against any and all leases, demages, leabilities, penalises, fines, interiors, clements, clements, clements, cathon, satis, costs and response (action), but not imited to, associated experts for all of them by any person or any power-ments against gency, or which any or all of them say have a sentenced experts and responsible for or pay out, as a result of or in connection with bodily signise (motiving, but not limited to, desire, desired and experts and experts any or all of them say present (motiving EO's employees), desired, but not limited to, is not imited to, loss of use) to any property (public or phasis), or any response to contact or local supports to investigable, narrows or remarkable apparents in connection with contemporation of or adverse effect on the environment, or any violation or any status, orders, colors, rules or regulation or alleged violation of any status, orders, colors, rules or regulation of the Customer to be fire, accorded or entirely out of (i) a breach of this Agreement by the Eustomer to be fire, accorded and complete, or (iii) any wellful or negligent act or consistent of the Customer, or its employees or specific in the performance of this Agreement).

#### Force Malaure

ה אחת שת דב. ש

EO shall not be bable for any failure to accept, receive, handle, tract, and/or dispose of Delhared Wasts due to an act of God, fire, casually, food, war, shifte, indexed, bable, fract, and/or dispose of Delhared Wasts due to an act of God, fire, casually, food, war, shifte, indexed, bable, tract, and present tailors, saudporent failure, saudity standown, injuration, academic, entitions, destruction of operation or franceson reddies, the hability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the tailure or traching to obtain any powermental approvals or or meet Environmental Programments (including, but not imited to voluntary or involuntary compliance with any act, costone, assertion, or requirements of any powermental activity) which may be approve the operation of EO, the Costones, or the Generator, or any other circumstances beyond the control of EO which prevents or delays performence of any of he obligations under this Agreement.

This Agraement shall in all respects be povermed by and shall be construed in accordance with the lasts of fire Blate of Michigan applied to carried a second and performed wholly within such

### **MASTCO COMPANY**

P.O. Box 392 Wilmette, IL 60091-0392 Phone: 708/251-8835

none: 708/251-8835 182-B Sti Fax: 708/251-8837 Waukega

Shipping Address: 182-B Stripe Ct. Waukegan, IL 60085

January.17,1994

Morey Corporation 2659 Wisconsin Downers Grove, Illinois 60515 Att: Phil Myers

Metal Settlement For Scrap Received 12/16/93

Transaction M6020

1.) 16 pails/skid 63/37 solder dross 1978-200-1778 lbs. net Settlement basis: 65.00¢/lb. x 1778=\$1155.70

Total due \$1155.70 (Check attached)

This completes the settlement on this shipment. The above settlement basis is as per your agreement with Dale Rondinelli of Miltex Corporation. This will also verify that this dross was properly handled by company which specializes in the reclamation and refining of tin/lead alloys. All of your dross was consumed and used in new products.

If you have any questions please call. Thank you for this opportunity to do business and please call on us if we can be of service in the future.

Edward M. Alpert

EMA/bma

cc Dale Rondinelli

date of prep : 08/16/91

SECTION I

telephone#

manufacturer : Moline Paint Manufacturing Co.

: 5400 23rd Avenue Moline, IL 61265 address

: (309) 752-7546 : (309) 762-7546

- H M I S -

HEALTH. : 2* : 3 FLAMMABILITY REACTIVITY PERSONAL PROTECT: I

product class: ALKYD (HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high, 4=extreme, *=ch mfg. code id: 11-N103A (I = safety glasses, gloves, combination dust and vapor respirator) trade name : 1E-2493A MOJAVE BROWN LEAD & CHROME FREE ENAMEL 4=extreme, *=chronic)

SEC:	rion II-A	HAZARDOUS	HAZARDOUS COMPONENTS				
no.	component	CAS#	I by wt.	SARA 313	vapor presaure (mm Hg & 20 C)	LEL (8 25 C)	
1 2 3 4 5 6 7 8 9 10 11 12	MINERAL SPIRITS ALIPHATIC PETROLEUM DISTILLATES IRON OXIDE ISOBUTYL ALCOHOL TALC TITANIUM DIOXIDE ZINC OXIDE 2-BUTOXYETHANOL 1-METBOXY-2-PROPANOL ZINC 1-METBOXY-2-PROPANE ACETATE IRON OXIDE	64742-47-8 64742-89-8 20344-49-4 78-83-1 14807-96-6 13463-67-7 1314-13-2 111-76-2 107-98-2 7440-66-5 108-65-6 1309-37-1	20 - 25 15 - 20 5 - 10 1 - 5 1 - 5 1 - 5 1 - 5 1 - 5 1 - 5 1 - 5	Mo NO NO NO NO YES YES NO YES NO NO	1.90 15.00 (@ 38 C) N/A 9.00 N/A N/A 0.60 12.50 (@ 25 C) N/A 3.70 N/A	1.00 0.90 N/A 1.70 (6 51 C) N/A N/A 1.10 1.60 N/A 1.50 (6 200 C)	

None of the components of this product are recognized as carcinogenic by NTP, OSHA, or IARC.
This product may contain trace amounts of chemicals known to the state of California to cause cancer, birth defects or other reproductive harm (Proposition 65).

(N/A = not applicable)

SECT	ION II-B		OCCUPATIONAL EXPOSU	RE LIMITS			
no.	OSHA PEL/TWA	PEL/CEILING	ACGIH TLV/TWA	TLV/STEL	MFG PEL/TWA	PEL/CEILING	
1 2 3 4 5 6 7 8 9 10 11 12	100 ppm (AS STODDARD 400 ppm 10 mg/m3 100 ppm 20 mppcf 15 mg/m3 10 mg/m3 Total Dust 25 ppm (SKIN) FINAL 100 ppm FINAL N/E N/E 10 mg/m3 as Dust	N/E N/E N/E N/E N/E N/E N/E	100 ppm (AS STODDARD 300 ppm N/E 50 ppm 2 mg/m3 Resp. Dust 10 mg/m3 Total Dust 10 mg/m3 Total Dust 25 ppm (SKIN) 100 ppm 5 mg/m3 N/E 10 mg/m3 Nuisance Dus	N/E N/E N/E N/E N/E N/E 150 ppm N/E N/E	N/E 350 mg/M3 (ASHLA N/E H/E H/E H/E H/E H/E H/E H/E H/E H/E	N/E N/E N/E N/E N/E N/E N/E N/E N/E N/E	•

The dried film of this product is hazardous when removed by sanding, grinding, or welding.

(SKIN) absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact.

(N/E = not established)

SECTION III		PHYSICAL DATA	 		
evaporation rate :	not established < 1 (ether = 1) > 1 (air = 1)	I volatile by volume I volatile by weight weight per gallon	70.36 52.38 8.79	(Theoretical) (Theoretical) (Theoretical)	
SECTION IV		EALTH INFORMATION			

EYE CONTACT PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY. PRODUCT VAPORS AND/OR MISTS MAY ALSO BE IRRITATING TO THE EYES.

SKIN CONTACT
BASED ON THE PRESENCE OF COMPONENT 8 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN, PROLONGED CONTACT MAY CAUSE DAMAGE
TO THE SKIN, BASED ON THE PRESENCE OF COMPONENTS 8, 9 AND 11 ABSORPTION THROUGH THE SKIN MAY RESULT IN SYMPTOMS OF EXPOSURE AS THOSE
DESCRIBED FOR INHALATION AND INGESTION, PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DERMATITIS.

EXPOSURE MAY PRODUCE IRRITATION TO THE MOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. EXPOSURE TO HIGE CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEFRESSION. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

MODERATELY TOXIC. BASED ON THE PRESENCE OF COMPONENT 8 INGESTION MAY CAUSE RED BLOOD CELL HEMOLYSIS LEADING TO KIDNEY AND LIVER DAMAGE. SMALL AMOUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE. INGESTION MAY CAUSE CENTRAL MERVOUS SYSTEM DEPRESSION.

SIGHS AND SYMPTOMS
SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING,
RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMPORT, SHORTNESS OF
BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OF GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOLITING AND
DIARRHEA. CENTRAL NERVOUS SYSTEM DEFRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME
CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. SYMPTOMS OF CHRONIC OVEREXPOSURE INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY
AND LOSS OF COORDINATION.

AGGRAVATED MEDICAL CONDITIONS
PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED CENTRAL HERVOUS SYSTEM FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS
BASED ON THE PRESENCE OF COMPONENTS 8, 9 AND 11 CHRONIC OVEREXPOSURE MAY CAUSE INJURY TO THE KIDNEYS AND LIVER. BASED ON THE PRESENCE OF COMPONENTS 8 AND 9 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE LUNGS. BASED ON THE PRESENCE OF COMPONENTS 8 AND 9 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE LUNGS. BASED ON THE PRESENCE OF COMPONENT 6 CHRONIC OVEREXPOSURE TO TIC2 DUST MAY CAUSE SLIGHT. LUNGS INFORMATION OF THE LUNGS. BASED ON THE PRESENCE OF COMPONENT 3 CHRONIC OVEREXPOSURE TO TALC DUST MAY CAUSE SCARRING OF THE LUNGS. BASED ON THE PRESENCE OF COMPONENT 3 CHRONIC OVEREXPOSURE TO PRODUCT DUST MAY PRODUCE A BENIGN PNEUMOCONIOSIS TERMED 'SIDEROSIS'.

11-N103A (page 27

*** MATERIAL SAFETY DATA SHEET ***

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

SKIN CONTACT
REMOVE CONTAMINATED CLOTHING AND SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION
IF IRRITATION OCCURS, DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

DO NOT INDUCE VONITING. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

>> COMPONENTS 1 AND 2 MAY CAUSE SEVERE, PERMANENT DAMAGE IF ASPIRATED AND VOMITING SHOULD NOT BE INDUCED

SECTION VI

FIRE AND EXPLOSION HAZARDS

flammability classification - OSHA : FLAMMABLE LIQUID - CLASS IB - DOT : FLAMMABLE LIQUID

flash point : 68 degrees F, (Theoretical)

EXTINGUISHING MEDIA USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS
WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER
COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS
CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKERING OF CONTAINER STRUCTURE.

SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

: · ·

CONDITIONS AND MATERIALS TO AVOID AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENT 8 AVOID STRONG ALKALIES.

BAZARDOUS DECOMPOSITION PRODUCTS
CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION
USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS - AT LEAST 10 AIR CHANGES FER HOUR ARE RECOMMENDED FOR GOOD GENERAL ROOM VENTILATION. IF EXPOSURE EXCEEDS THE PEL/ILV, USE THE APPROPRIATE NICSH-APPROVED RESPIRATOR.

PROTECTIVE CLOTHING
WEAR SAFETY GLASSES, GOGGLES, OR A SPLASH SHIELD TO PREVENT EYE CONTACT. CONTACT LENSES SHOULD NOT BE WORN. WEAR APPROPRIATE GLOVES
AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

ADDITIONAL PROTECTIVE MEASURES EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES
LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF
SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF.
REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE
MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH
SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

WASTE DISPOSAL OBSERVE ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL.

ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE, SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. VAPORS MAY ACCUMILATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE, KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, OR WELD NEAR CONTAINERS.

CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. BOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

. 1 1.

Morey Corp.

date of prep : 08/16/91 *** MATERIAL SAFETY DATA SHEET *** 11-C1064 (page 1) SECTION I

manufacturer: Moline Paint Manufacturing Co. address: 5400 23rd Avenue Moline, IL 51255

telephone

elephone# : (308) 762-7546 mergency# : (309) 762-7546

product class: ALKYD mfg. code id : 11-C106A trade name : CATERPILLAR YELLOW PAINT

-BMIS-**HEALTH** 

: 2* : 3 FLAMMABILITY REACTIVITY PERSONAL PROTECT.: I

(HAZARD RATING: 0=least, 1=slight, 2=moderate, 3=high, 4=extrame, *=ch. (I = safety glasses, gloves, combination dust and vapor respirator) 4=extreme, *=chronic)

SECT	NOI II-A	HAZARDOUS	HAZARDOUS COMPONENTS			
no.	component	CAS#	% by wt.	SARA 313	vapor pressure (mm Hg @ 20 C)	LEL (8 25 C)
1 2 3 4 5 6 7 8	XYLENE IRON OXIDE LIGHT AROMATIC NAPHTHA ETHYLBENZENE TITANIUM DIOXIDE HEAVY AROMATIC NAPHTHA MINERAL SPIRITS TRIMETHYLBENZENE HYDROTREATED HEAVY NAPHTHA	1330-20-7 20344-49-4 64742-95-6 100-41-4 13463-67-7 64742-94-5 64742-47-8 25551-13-7 64742-48-9	25 - 30 10 - 15 10 - 15 5 - 10 5 - 10 1 - 5 1 - 5	YES NO NO YES NO NO VES NO	6.60 N/A 2.60 5.40 N/A <3.00 (8 25 C) 1.90 N/A <10.00 (8 25 C)	1.10 N/A 0.90 1.00 N/A 0.80 1.00 N/A

None of the components of this product are recognized as carcinogenic by NTP, OSHA, or IARC. This product may contain trace amounts of chemicals known to the state of California to cause cancer, birth defects or other reproductive harm (Proposition 65).

(N/A = not applicable)

SECTION II-B OCCUPATIONAL EXPOSURE LIMITS									
no.	OSHA PEL/TWA	PEL/CEILING	ILV/IW/	ACGIH A	TLV/STEL		MFG PEL/THA	PEL/CEILING	
1 2 3	100 ppm; 150 ppm STEL 10 mg/m3 N/E	N/E	N/E N/E	434 mg/m3	N/E N/E	651 mg/m3	N/E N/E 50_ppm (EXXON)	N/E N/E N/E N/E	•
5	100 ppm; 125 ppm STEL 15 mg/m3 N/E 100 ppm (AS STODDARD	N/E N/E	10 mg/m3 N/E	434 mg/m3 Total Dust (AS STODDARD	N/E N/E	543 mg/m3	N/E N/E 100 ppm (EXXON)	N/E	
8 9	100 ppm (AS STODDARD 25 ppm 500 ppm (AS STODDARD	N/E	100 ppm 25 ppm 100 ppm	(AS STODDARD	N/E		N/E N/E 300 ppm (EXXON)	N/E N/E	•

The dried film of this product is hazardous when removed by sanding, grinding, or welding.

(N/E = not established)

SECTION III	РНУ	SICAL DATA			
boiling point evaporation rate vapor density	: not established : < 1 (ether = 1) : > 1 (mir = 1)	I volatile by volume : I volatile by weight : weight per gallon :	65.84 51.24 9.27	(Theoretical) (Theoretical) (Theoretical)	
SECTION TO	HEAT T	H INFORMATION			

PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. PRODUCT VAPORS AND/OR MISTS MAY ALSO BE IRRITATING TO THE EYES.

SKIN CONTACT
BASED ON THE FRESENCE OF COMPONENTS 3 AND 6 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE
DAMAGE TO THE SKIN, PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DERMATITIS.
BASED ON THE PRESENCE OF COMPONENTS 3 AND 6 CONTACT MAY RESULT IN A PRONOUNCED PHOTOSENSITIZATION EFFECT.

INHALATION
EXPOSURE MAY PRODUCE IRRITATION TO THE MOSE, THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES. EXPOSURE TO HIGH CONCENTRATIONS
OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO
SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS
MAY BE HARMFUL OR FATAL.

INGESTION INGESTION
SLIGHTLY TOXIC. SMALL AMOUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE. INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DEFRESSION.

SIGNS AND SIMPTURES
SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING,
RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY HOSE, SORE THROAT, COUGHING, CHEST DISCOMPORT, SHORTNESS OF
BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OF GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, MAUSEA, VOMITING AND
DIARRHEA. CENTRAL HERVOUS SYSTEM DEFRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTOXICATION; IN EXTREME
CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. SYMPTOMS OF CHRONIC OVEREXPOSURE INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY
AND LOSS OF COORDINATION.

AGGRAVATED MEDICAL CONDITIONS
PREEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED CENTRAL NERVOUS SYSTEM FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

BASED ON THE PRESENCE OF COMPONENT 9 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE KIDNEYS. BASED ON THE PRESENCE OF COMPONENT 5 CHRONIC OVEREXPOSURE TO T102 DUST MAY CAUSE SLIGHT LUNG FIBROSIS. BASED ON THE PRESENCE OF COMPONENT 2 CHRONIC OVEREXPOSURE TO PRODUCT DUST MAY PRODUCE A BENIGN PNEUMOCONIOSIS TERMED 'SIDEROSIS'.

EMERGENCY AND FIRST AID PROCEDURES SECTION V

EYE CONTACT
IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

SKIN CONTACT
REMOVE CONTAMINATED CLOTHING AND SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTAMINATED.

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

INGESTION
DO NOT INDUCE VOMITING. IF VOMITING SPONTANEOUSLY OCCURS, KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE
LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT
SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH.
CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

>> COMPONENTS 1, 3, 4, 6, 7, 8 AND 9 MAY CAUSE SEVERE, PERMANENT DAMAGE IF ASPIRATED AND VOMITING SHOULD NOT BE INDUCED.

SECTION VI

FIRE AND EXPLOSION HAZARDS

flammability classification - OSEA : FLAMMABLE LIQUID - CLASS IB - DOT : FLAMMABLE LIQUID

flash point : 50 degrees F. (Theoretical)

EXTINGUISHING MEDIA USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS WARNING. FLAMMABLE, CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS
CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN
CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO
PREVENT WEAKENING OF CONTAINER SITUCTURE.

SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID AVOID OXIDIZING MATERIALS.

**HAZARDOUS DECOMPOSITION PRODUCTS** 

CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION
USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS - AT LEAST 10 AIR CHANGES PER HOUR ARE RECOMMENDED FOR GOOD GENERAL ROOM VENTILATION. IF EXPOSURE EXCEEDS THE PEL/TLV, USE THE APPROPRIATE NIOSH-APPROVED RESPIRATOR.

PROTECTIVE CLOTHING
WEAR SAFETY GLASSES, GOGGLES, OR A SPLASH SHIELD TO PREVENT EYE CONTACT. CONTACT LENSES SHOULD NOT BE WORN. WEAR APPROPRIATE GLOVES
AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

ADDITIONAL PROTECTIVE MEASURES
EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES
LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER

WASTE DISPOSAL OBSERVE ALL PEDERAL, STATE, AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL

SELTION X

ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AMAY FROM HEAT, SPARKS, AND FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION FRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY BOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OF FLAME. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION. CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, OR WELD MEAR CONTAINERS.

CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY, WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET PACILITIES.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.



May 12, 2001

Ms. Amy Yindrick, Esq Foley & Lardner 330 North Wabash Ave Suite 3000 Chicago, IL 60611

Re: Lockformer Subpoena

Dear Amy:

I have enclosed copies of the following information in response to the Lockformer Subpoena:

The NFR letter received from the State of Illinois EPA

Focused Site Investigation and Remedial Action Completion Report, Prepared by Pioneer Environmental, Inc., dated November 8, 2000.

Focused Site Investigation and Remedial Action Completion Report (addendum), Prepared by Pioneer Environmental, Inc., dated January 23, 2001.

A list of chemicals kept by The Morey Corporation.

A material data safety sheet for the one product we have identified which contains chemicals listed in the subpoena.

A purchase history for the product reflecting all purchases since 1992.

The product we have identified is "Slide Epoxease Areosol". The product is used in our manufacturing process to enable us to dislodge hardened plastics from molds.

I appreciate your assistance in this matter. After you and your environmental specialists have had an opportunity to review the enclosed, please call me to discuss at (630) 754-2130.

Sincerely,

Michael L. Legel Chief Financial Officer

#### Morey Corporation Chemical Inventory by Product Name

Acti-Brite

Acid Cleaner

3880 Adhesive Elect. Cond.

Air Dry Enamel (Glyptal)

Air Lube

Alkyd Resin Solution - Glyptal

Aluminum Alloys

Alloy Steel

Ammonium Hydroxide - (Liquid Mask)

BE Series Baking Epoxy Ink

**Bobbing Compound** 

**Brass** 

Bronze

BSC - 93 - PC

Carbon Steel

Castle Metals - variety

Catalyst 23 LV

Cleaner 320

Copper

Loctite ODC cleaner and degreaser - 20260

Chemask DA

Cho-Therm 1674 Solvent Based Silicone

Conductive Adhesive

CSL 588 Electronic Grade Sealant/Adhesive

Cylesstic TK 460 Lubricating Oil

**DBE Solvent** 

Dow Corning High Vacuum Grease

Dow Corning (4) Electrical Insulating Compound

Dow Corning (R) 340 Heat Sink Compound

Dry Lube Aerosol Lubricant 2W757-BT.F.E.

E-341 FR Black Epoxy Resin

Eccobond A-401-37

Eccogel 1265 Clear, Part A

Eccogel 1265 Part B

Eccostrip 93 Organic Solvent

Elastomeric Rubber Flange Sealant

**Epoxy Color Paste Black** 

Foille Plus Medicated First Aid Spray

Flange sealant 509 850 c

Flexible Anaerobic Gasket Flange Sealant

Flux Core Solder 245

Hi-Grade #3592 Flux

Gasoline (Lead Free)

**GE Silicones** 

High Temperature Flange SLT Anaerobic 300ML

Humiseal Type 1A33

Humiseal Type Thinner 521

Hysol 7804 Polyamide Hot Melt Adhesive

Isopropanol, Anhydrous (Alcohol)

Koki JS - 3000 Flux

Liquid Silicone Rubber

Lite Tak (R) 375 Surface Curing UV Adhesive

Lite Tak (R) 3751 Adhesive

Loctite (R) 509 Gasket Eliminator Sealant

Loctite (R) 712 Accelerator Tak Pak (R)

Loctite 4471 instant adhesive prism

Locquic Primer N

Locquic (R) Primer T 7471

Lonco SLS 65 Flux

Low Breakloose PST 250ML Tube Anaerobic

Lubriplate DS-ES Lubricating Grease

McLube 1775x Fluoropolymer/Organic Resin

McLube 2003 Fluoropolymer/Dispersion

Medical Device Adhesive Light Curing -UV Adhesive 3201

Mobil Vacuum Pump Oil

Mojave Brown Enamel 1E1950E

Multi-Cleaner #2 Glass & Surface Cleaner

Multi-Blend #5 Neutral Cleaner

Multi-Clean #7 Spray & Wipe Degreaser

Oatey Cleaner (Methyl Ethyl Ketone and Acetone)

Omegabond 101 Epoxy (Part A)

Orange Industrial Lube 390

Orange Turbine Oil 150 R&O

Paint (Caterpillar Yellow)

PC-101 Protective Coating

Pc-101 Thinner

PD860002Sp, PD 860002SA and PD 860002S SMT Adhesive

PD944 Surface Mount Adhesive

Permabond epoxy adhesive

Petroleum Hydrocarbon (Kerosene)

Petroleum Solvent

Phenolphthalein Solution 0.1%

Phenolphthalein Indicator Solution 5g/1

Poly Prep Primer

Polyethylene Glycol Monolauryloxy (Nu-Kote)

Prism (R) 460

Removable Threadlocker 242

Loctite 271 - Threadlocker

Loctite 290 Threadlocker Wicking Grade 29005

Nickel

Restech Polyol 309

Restech Activator 142

Retaining Compound 620 High Temperature Anaerobic

RE 180 Screen Ink Thinner (9/28/00)

RT-1 Epoxy Hardener

RTV 11 Silicone Rubber Compound

RTV 102 Silicone Rubber Compound

RTV 103 Silicone Rubber Sealant

RTV 108 Silicone Rubber Sealant

RTV 133 Silicone Rubber Sealant

RTV 160 Silicone Rubber Sealant

RTV 162 Silicone Rubber Sealant

SAE-30 Lubricating Oil

Shineline Multi-Surface Cleaner

Silicone Elastomer

Silastic(R) RTV Silicone Rubber Base

Silastic(R) RTV Silicone Rubber Curing Agent

Slide Eporease Aerosol

Sodium Hydroxide 8.00

SS4-M951K Solder Paste

Solventless Actvt. 1 Lt Cn

Solder Paste 63Sn/37PG

Solvent Based Coating Material

Sparkle Glass Cleaner

Static - Free Hand Guard Lotion

Statguard Static Dissipative Floor Finish

Stycast 2651 MM White

Stycast 2754, Part B

Stycast 2850FT Black

SU 100 Silicone Sealant/Adhesive Remover

Super Bonder (R) 496 Instant Adhesive

Super Bonder (R) 495 General Purpose Inst. Adhesive

Tak Pak (R) 7452 Accelerator

Tak Pak (R) 382 Instant Adhesive

Three in One Oil

Thinner 425

Thinner X732-10M

Turmofluid 40 B Lub.

WD-40 (Aliphatic Petroleum Distillates)

Xylene cas 1330-20-7

Zep Z-Green

Zep Big Orange

Fred Pfeiffer - Safety Manager

(090370)

MATERIAL SAFETY DATA SHEET SLIDE PRODUCTS, INC. 430 S. WHEELING RD.

PRODUCT NAME: SLIDE EPOXEASE AEROSOL

WHEELING, IL 60090

EMERGENCY TELEPHONE: 800-535-5053 **INFORMATION TELEPHONE: 847-541-7220** 

D.U.N.S. NUMBER: 00-299-4168 PREPARED BY: MICHAEL MUTH **REVISION DATE: 6-1-97** PRODUCT NUMBER: 40616T FAX NUMBER: 847-541-7986

#### SECTION I. IDENTIFICATION

CHEMICAL NAME: SYNTHETIC WAX DISPERSION

CHEMICAL FAMILY: SYNTHETIC WAX

FORMULA: 40616T

SYNONYMS: EPOXEASE

DOT HAZARD CLASSIFICATION: ORM-D

DOT SHIPPING NAME: CONSUMER COMMODITY

CHEMICAL ABSTRACT REGISTRY NUMBER: N/A. MIXTURE

IDENTIFICATION NUMBER: NONE

H.M.I.S. RATING: 1,3,0,1

#### SECTION II. PHYSICAL DATA

#### DATA IN SECTION II APPLIES TO CONCENTRATE BEFORE ADDING PROPELLANT

**BOILING POINT: 103-337 DEGREES F.** FREEZING POINT: < -40 DEGREES F. SPECIFIC GRAVITY: (H20 =1): 1.02 WEIGHT PER GALLON @ 60 F.: 8.58 VAPOR PRESSURE @ 70 F. (MM HG): 350 VAPOR DENSITY (AIR = 1): > 1 SOLUBILITY IN WATER, % BY WT.: NIL PERCENT VOLATILE BY WEIGHT: 96

**EVAPORATION RATE (MINUTES): 20** 

APPEARANCE AND ODOR: OPAQUE BROWN LIQUID - CHLORINATED SOLVENT ODOR

#### SECTION III. HAZARDOUS INGREDIENTS

APPROX. WEIGHT %: CAS NUMBER: MATERIAL: PEL (OSHA) TRICHLOROETHYLENE ** 55-65 79-01-6 100 PPM PROPANE A-108
ALIPHATIC NAPHTHA 10-20 74-98-6 1000 20-26 68513-03-1* 130 SYNTHETIC WAX 1-6 N/A MIXTURE ##CONTAINS NO OZONE DEPLETING CHEMICALS##

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA DIRECTORY

**)SEE SECTIONS X AND XI FOR DETAILED CAUTIONS

#### SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE LIMITS IN AIR:

LEL: 1.0

**UEL: 9.5** 

(VOLUME %)

FLASH POINT: N/A SPECIAL FIRE FIGHTING PROCEDURES: CHLORINATED HYDROCARBON FORM HCL, HF AND TRACES OF PHOSGENE UPON PYROLYSIS.

UNUSUAL FIRE & EXPLOSION HAZARDS: AEROSOLS MAY RUPTURE VIOLENTLY AT TEMPERATURES ABOVE 120' F.

PO0153.05 * HISTORY *	1		nase Order eceiver Det		09:28:02	5/10/01
Product 1090370		GEN LUI	B MOLD RELE			
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ENVIRONMENTAL MANAGEMENT AND RESOURCE CONSULTANTS, INC. P.O. Box 578 • Lemont. IL 60439
630 257. 9357 • 888 436 6272 • Fax 630. 257 1650

# PHASE II SUBSURFACE INVESTIGATION(S)

#### - SITE LOCATION:

Morey Corporation 2659 Wisconsin Ave. Downers Grove, Illinois

#### PREPARED BY:

ENvironmental Management And Resource Consultants, Inc. (ENMARC) 229 E. Custer Street Lemont, Illinois 60439

#### PHASE II SUBSURFACE INVESTIGATION(S)

Morey Corporation 2659 Wisconsin Ave. Downers Grove, Illinois

#### I. INTRODUCTION

On May 9th, 2000, a Phase I Environmental Site Assessment of the above referenced Property was completed on behalf of the potential purchaser, Cable/Comm Technologies. The results of the Phase I ESA indicated two areas of potential environmental concern: (1) the clay potting compound mixing area inside of the building which contain evidence of spilled materials and structural degradation of the underlying concrete floor; and (2) an area exterior to the building in which a drain leading from the chemical and waste storage area exits through the wall. There was evidence of stressed vegetation within this area, indicating that chemical spills have impacted the these surface soils by means of migration through the storage room drain. Figure 1 provides a map identifying the locations of these potential concerns.

Additionally, on May 18th, ENMARC had been requested to mobilize to the site to collect samples from this exterior area (@ the end of the drainage piping), following the removal of approximately 1.5 cubic yards by the Morey Corporation. The Morey Corporation had experienced a release of a flux thinner (containing the hazardous compounds: isopropanol and methanol) that had migrated through the drain located in the chemical storage room and into the environment at this location. An approximate 3' x 3' x 4' deep excavation had been manually dug and the soils placed into containers. ENMARC collected samples from the sidewalls and bottom of the excavation and subjected them to field screening analysis using a Photoionization Detection (PID) meter. Field screening analysis of the sidewall samples collected from 2-3' depth intervals resulted in no PID readings. However, the bottom sample collected and subjected to field screening indicated a PID reading @ 8.7 ppm.

Subsequently, ENMARC collected an additional sample off the bottom of the small excavation area (@ 4') for submittal to an environmental testing laboratory for analytical documentation of the levels of contaminants that may be present. The bottom sample was collected pursuant to EPA Method 5035 (refer to Section II for details of sampling method), labeled and placed into an iced cooler pending transport to an environmental testing laboratory. The sample was submitted under chain-of-custody to the laboratory and analyzed for VOC's (Volatile Organic Compounds), SVOC's (Semi-Volatile Organic Compounds) and isopropanol and methanol compounds using EPA SW-846 test methods. Results of the analysis indicated levels of several contaminants above the current Tier 1 standards adopted under 35 Illinois Administrative Code (IAC) Part 742, Tiered Approach to Corrective Action Objectives (TACO). These contaminants include: tetrachloroethene, trichloroethene and vinyl chloride.

As a result, an extended subsurface investigation was completed on June 2nd, 2000. The intent of the follow-up subsurface investigation completed was to attempt to delineate the extent of the impact plume of contaminants discovered at the site.

#### II. EXTENDED PHASE II FIELD ACTIVITIES

On June 2, 2000, ENMARC mobilized the necessary equipment and personnel to the subject Property to install borings by means of Geoprobe methods to determine the extent of the impact previously discovered at the site, and to complete one boring within the potting compound mixing area. A total of seven borings were completed.

Figure 2 and Figure 3 provides illustrations of the location of the borings completed as part of the extended Phase II subsurface investigation completed. The samples were collected and analyzed in accordance with EPA protocol:

#### (1)Sample Collection

The borings were continuous sampled through their entire length for purposes of classifying the soils beneath the site, in addition to collecting samples at 2 foot depth intervals for field screening analysis and potential laboratory analytical documentation of the absence/presence of dry cleaning compounds. The samples collected from each depth interval were split into three portions. Pursuant to EPA Method 5035, approximately 5 ± g (weighed in the field) aliquots of the initial portion were placed into each of three pre-preserved 40 ml VOA bottles (one was preserved with methanol and two with a sodium bisulfate/deionized water solution) supplied by the laboratory. An additional portion was place into a 4 ounce glass jar with teflon lid for dry weight determinations, and the remaining portion was placed into a heavy duty plastic bag and sealed for purposes of "headspace" field screening analysis. The laboratory samples (VOA bottles and 4 ounce glass jars) were placed into an iced cooler pending submittal to an environmental testing laboratory for analytical confirmation of the levels of suspect constituents.

All sampling equipment was decontaminated between sample locations utilizing a detergent wash, i.e., tri-sodium phosphate; tap water rinse and a final distilled water rinse and allowed to air dry. A new, clean pair of nitrile gloves was utilized for each sampling interval.

#### (2) Field Screening:

The samples collected and placed into the heavy duty plastic bags were subjected to a heated environment for approximately ten minutes to enhance the volatilization of any organic contaminants prior to headspace screening with a properly calibrated Photoionization Detection (PID) meter, HNu Model HW-101. The probe of the PID meter was subsequently inserted through the plastic bag and into the "headspace" of the glass container and the maximum reading recorded. The PID meter was utilized to assess, in the field, the presence of potential impact. Boring logs, including the field screening analysis results were recorded in the field for each boring logation. Attachment 1contains copies of the boring logs completed for the project.

#### (3) Sample Submittal to the Laboratory

The samples collected were labeled with the following information: Client, Site Name, Date, Sample Identification # and samplers initials. The samples were placed into an "iced" cooler for preservation purposes during transport to the laboratory. A laboratory chain-of-custody sheet was completed and submitted with the samples relinquished to the laboratory for analysis. Due to the lack of the presence of semi-volatiles and other compounds analyzed in the initial sample collected on 5/18/2000, all samples were subjected to analysis for VOC's only using EPA Method 8260.

#### III. SITE GEOLOGY

Pursuant to geologic reference sources, specifically the 1984 Berg Circular entitled, "Potential for Contamination of Shallow Aquifers from Land Burial of Municipal Wastes", the site may be located within one of the following Berg Geologic Zones:

Zone Ax: Alluvium, a mixture of gravel, sand, silt and clay along streams, variable in

composition and thickness;

Zone C2: Sand and gravel within 20-50 feet of land surface, overlain and underlain

by relatively impermeable till, other fine-grained material, and/or bedrock;

Zone E: uniform, relatively impermeable silty or clayey till at least 50 feet thick; no

evidence of interbedded sand and gravel.

Visual inspection of the samples collected of the soils beneath the site indicates that the native soils consist of silty clay materials within the shallow subsurface environment, up through a depth of approximately 12 feet below grade near the source (where the drain pipe exits the building). Within this area in which the source is located, the elevation is approximately 4 -5 feet higher than the remaining topography, particularly that at and north of the loading dock area. At approximately 11' feet below grade at the source location, a stiff, grey silty clay layer is encountered which appears to be the confining layer absent of impact above TACO Tier 1 standards. This confining layer is subsequently encountered at shallower depths across the site in the direction of the loading dock. Additionally, the initial strata immediately encountered at the site consists of nonnative clayey fill materials. Without the completion of borings to greater depths, the type of Berg soils that underlay the site cannot be defined.

#### IV. SOIL SAMPLE ANALYSIS

Samples from the depth interval indicating the highest levels of potential impact (based upon visual and/or field screening analysis) from each boring location were submitted to an environmental testing laboratory for purposes of analysis for Volatile Organic Compounds (VOC's, EPA Method 8260), which were initially detected in the first sample collected and analyzed from the site.

Laboratory analysis of the samples collected did result in levels of several (VOC) compounds that had initially been detected at several of the borings installed. A table summarizing the results of the analysis completed in comparison to TACO Tier 1 standards is incorporated as Attachment 2, along with copies of the laboratory analysis reports for each of the samples submitted for analysis.

Based upon review of the analysis results, the highest impact is located at the bottom of the concrete stoop located immediately adjacent to the unloading dock area. It appears that releases of contaminants from the drainage pipe would follow the topography of the ground surface and flow towards the bottom of the concrete steps towards the unloading dock. Materials appear to have accumulated at this location and infiltrated into the ground.

#### V. CONCLUSIONS AND RECOMMENDATIONS

In general, the levels detected at the site were compared to the TACO Tier 1 standards which comprise the initial Tier of cleanup objectives developed under TACO by the Illinois EPA. TACO Tier 1 evaluations are used as the first basis of comparison in establishing impact and corresponding remediation. Tier 1 standards are based upon three types of exposure; ingestion, inhalation and the migration path to groundwater ingestion routes of exposure, and is additionally based upon property use, i.e., residential versus commercial/industrial. TACO uses a series of ASTM equations which models the transport of contaminants through the subsurface. Tier 1 standards are calculated from these equations using conservative, generic calculation parameters. It appears that the primary route of exposure that the contaminant levels at this site exceed, under a Tier 1 evaluation, is the migration to groundwater ingestion exposure route. There are, however, several locations at which the inhalation exposure routes are additionally exceeded. A summary identifying these exceedences is incorporated into the following table:

SAMPLE I.D./DEPTH	PAR	AMETERS ABOVE TACO TIE	R 1
	TETRACHLOROETHENE	TRICHLOROETHENE	VINYL CHLORIDE
S-1 @ 4'	14.9	0.618	0.116
B2 @ 8-10'	66.7	5.96	ND
B4 @ 6-8'	220.8	0.496	ND
B5 @ 4'	4.03	0.250	ND
B6 @ 4'	97.7	0.129	ND
B7 @ 4'	0.147	ND	ND
IEP	A TACO TIER I CLEANUP OF	BJECTIVES - RESIDENTIAL, I	PPM
INGESTION	12	58	0.3
INHALATION	11	5	0.03
IEPA TAC	O TIER I CLEANUP OBJECTI	VES - COMMERCIAL/INDUST	RIAL, PPM
INGESTION	110	520	3
INHALATION	. 20	8.9	0.06
IEPA TAC	O TIER I CLEANUP OBJECTI	VES - CONSTRUCTION WOR	RKER, PPM
INGESTION	2400	1200	65
INHALATION	28	12	0.08
. IEPA TACO TIER I CL		RATION TO GW INGESTION ( L/INDUSTRIAL	BOTH RESIDENTIAL &
CLASS I	0.06	0.06	0.01
CLASS II	0.3	0.3	0.07

Figure 2 also provides a map in which an impact boundary, of those levels exceeding Tier 1 standards, is estimated.

However, TACO additionally establishes Tier 2 and Tier 3 objectives, which are based on the development of site-specific standards/modeling. In lieu of the conservative, all encompassing parameters for use in calculating cleanup objectives as done under Tier 1, Tier 2 standards are based upon the use of site-specific parameters that are developed from the collection and geotechnical testing of the soils at the site. Tier 3 further exemplifies site specific development of standards by allowing the use of additional modeling of the contaminants present at a site, in addition to considering other conditions not allowed under Tier 1 or Tier 2.

Additionally, under TACO evaluations, the use of institutional controls and engineering barriers to limit the exposure to contaminants at a Property is allowed. Institutional controls include the use of restrictions to limit the use of the property, prohibit the installation or use of on-site wells, and facilitate the use of highway authority agreements, etc. Engineering barriers include the installation of such barriers as clean soil, concrete or asphalt caps over the impacted areas to prohibit exposure to the underlying contaminants.

In conclusion, TACO was developed by the Illinois EPA in order to address impact at industrial/commercial properties using a risk-based approach in lieu of one set of broad, conservative standards for establishing "clean" which in the past has created costly and unnecessary cleanups. The IEPA now recognizes site specific conditions for establishing cleanup objectives, as wells as the use of institutional controls and engineering barriers to minimize the risk associated with impacted properties.

With regard to the specific impact discovered at the site, there is a high likelihood that the calculation of a site specific cleanup objectives, in conjunction with the limited application of engineering barriers, may be able to demonstrate that the existing levels can be allowed to remain in-place as-is. Based upon review of the areas exceeding TACO cleanup objectives, ENMARC would like to provide the following evaluations and recommendations:

- 1. Based upon the fact that the site is currently supplied with potable water from a municipal water supply source, and that the installation of an on-site well is not necessary, and may even be prohibited at the Village level, the groundwater ingestion route of exposure to the contaminant levels is limited, therefore the exposure route with regard to groundwater ingestion is basically eliminated; and
- Collection of a sample for physical soils analysis, for purposes of calculating site specific Tier 2 cleanup objectives for the inhalation exposure route. There are four areas at which the inhalation exposure route standards under Tier 1 have been exceeded, based upon the current and continuing industrial use of the Property: S-1, B2, B4, and B6. Prior experience with similar contaminants and soils indicates that most of these locations would fall under a Tier 2 standard for inhalation, excepting for B4 where the levels of Tetrachloroethene are relatively high @ 220.8 ppm. This location also exceeds the standard established for the ingestion exposure route for Tetrachloroethene (@ 110 ppm) which cannot be changed by a Tier 2 evaluation. Therefore, the application of a concrete cap to act as a barrier to the impact would suffice. An approximate 10' x 10' concrete patio over the location of B4 would sufficiently eliminate the inhalation and ingestion exposures to the impact levels at this location.

In order to achieve the above, an additional investigation and collection of samples for both chemical and physical analysis would be necessary. The cost of the investigation (by ENMARC) would be approximately \$ 4,125.00. This would include the installation of up to 5 additional borings, the geotechnical and chemical analysis of these samples, TACO modeling to determine Tier 2 site specific objectives, and a final report. The additional sampling and analysis will take several weeks to complete due to the extensive laboratory work required. In conjunction with the use of site specific objectives, the 10' x 10' patio at the highest area of impact (B4) would act as an engineering barrier, which would in all likelihood eliminate the routes of exposure to the contamination in accordance with the protocol established under TACO.

If Tier 2 calculations do not resolve the inhalation impact areas (specifically that @ B6), we estimate that a 25' x 15' area would require capping with concrete to serve as an additional engineering barrier. The cost of the engineering barriers would thus be approximately \$ 5000. The total cost of addressing the impacted areas by means of risk management would subsequently be \$ 10,000.00.

#### **LIMITATIONS**

Conclusions and recommendations in the Phase II section of this report are based upon the data obtained from samples collected at the indicated locations and from any other information discussed in this report. Only a limited evaluation was performed and this report does not reflect any variations which may occur between sample locations. The nature and extent of such variations may not become evident until later. If variations appear evident, it will be necessary to re-evaluate the recommendations in this report.

The observations described in this report were made under the conditions state herein. The findings presented in the report were based solely upon the services described in 20-656.02 and not on tasks or procedures beyond the scope of the described and authorized services.

Certain site-specific information presented in this report was obtained from the parties herein referenced. ENMARC did not attempt to verify independently the accuracy or completeness of all information reviewed or received during the course of this subsurface site investigation.

The objective of this Phase II subsurface site investigation was to provide data for the evaluation of the site located at 2659 Wisconsin Ave., Downers Grove, Illinois. Further investigative site information which was not available to ENMARC at the time of this assessment may result in a modification of the findings stated above.

This report has been prepared in accordance with generally accepted site assessment practices. No other warranty, expressed or implied, is made.

### LIST OF FIGURES AND ATTACHMENTS:

Site Plan Map Figure 1:

Figure 2: **Boring Location Map** 

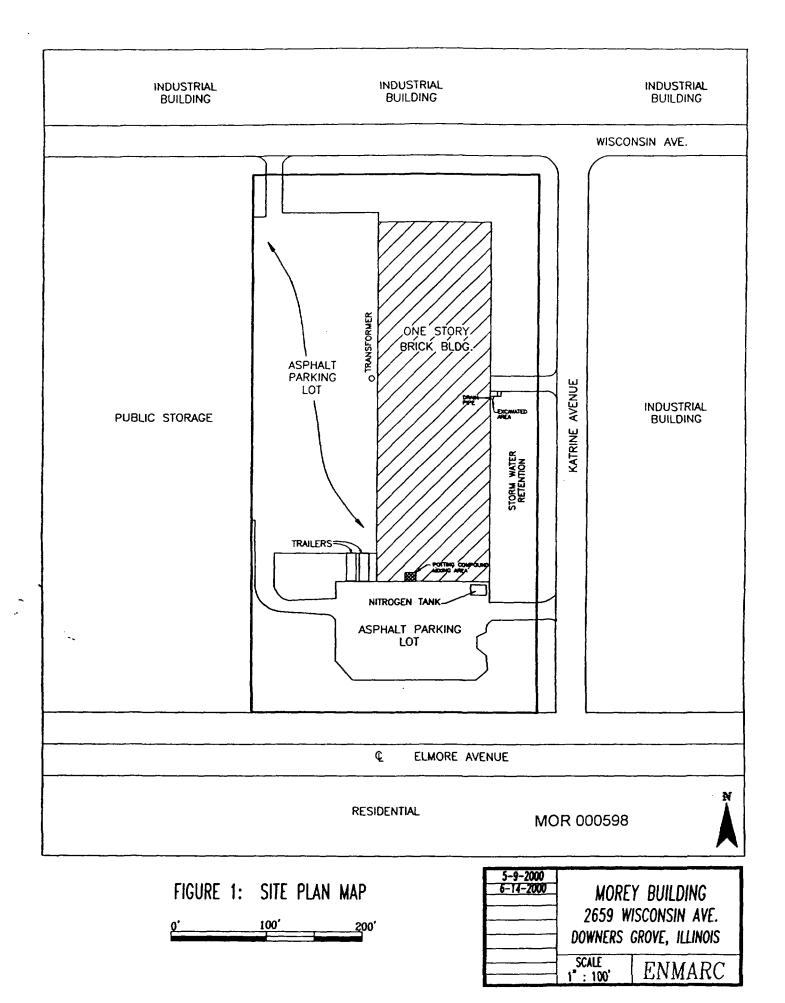
Attachment 1: Boring Log Records Attachment 2: Laboratory Analysis Reports

#### **LIST OF FIGURES:**

Figure 1:Site Plan Map

Figure 2:Boring Location Map - Inside; Near Potting Compound Mixing Area

Figure 3: Boring Location Map - Outside; Near Loading Dock Area



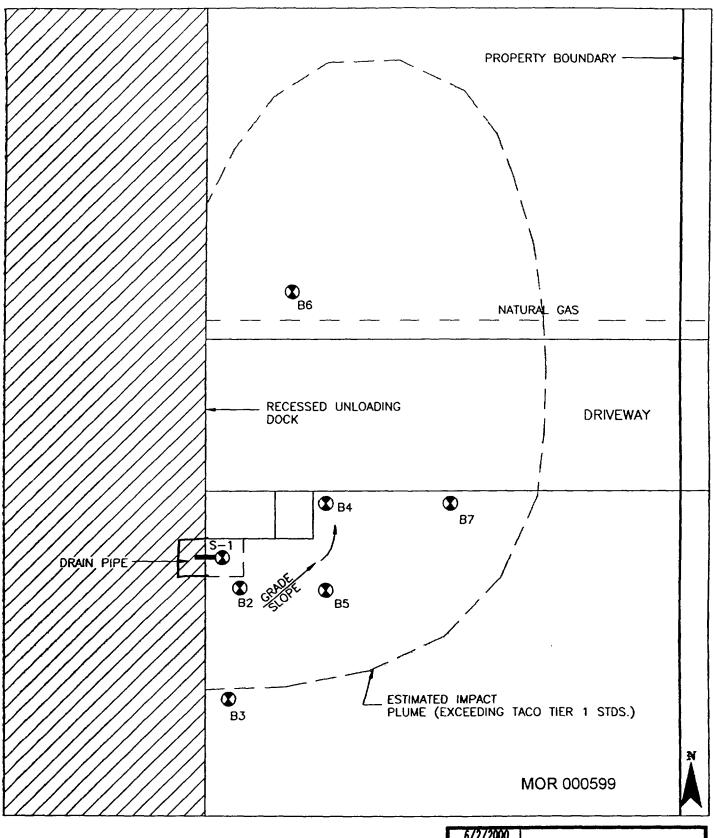


FIGURE 3: BORING LOCATION MAP -- NEAR LOADING DOCK AREA

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	SCALE 1" : 10'	ENMARC

Attachment 1:

**Boring Log Records** 

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<b></b>	<del></del>	Bowners Gr T	rove, Illinoi I	s						
Sample Number	Sample Type	Sample Recovery	Depth (feet)			Detailed Soil And Rock Description			PID (ppm)	COMMENTS
		90%	1 2		BAREGROUND 4" BLACK CL BROWN/BLACI	AYEY TOPSOIL K CLAY FILL			12.4	NO MAJOR EVIDENCE OF STAINING OR ODORS
	)RE		— 3 — 3 — 4		BROWN/GREY SOME GRAVEL	MOTTLED SILTY CLAY, ., TRACE SAND			18.8	- SAMPLE_
	MACRO-CORE	100%	- 5 - 6						12.0	COLLECTED
	LENGTH N		— — 7						0.8	
	DIAM, 4' L	100%	8 9 9		GREY SILTY ( STIFF, DENSE	CLAY, TR. SAND & GRAVE	L		0.6	
	1.5" [		— 10 — 11 — 12		REFUSAL, RO				NS	112 ₀   1
			— 13 — 14		<b>i</b>	MOR 00	00605	i		*Sample Submitted For Analysis
			<u> </u>							
			s are ap			ion between soil types may be gro	odual.			
G10	undwater Depth	' Vala While Dr RY	rilling	1	er Depth ary Depth	·	F	- NI	M	ARC
∇	Depth	After Dr	illing		e: Boring backfilled	Geologist <u>J. Virgilio</u> w/cuttings unless otherwise noted.	1 -	- !9 E.	Cus	ster Street Illinais

Project	No ·	20-65	6 N2			Boring Number:	B6		Page			7
110,000	. 110	70 00	U.UL						Date:	(	5/2/2000	
Site N	ame: N	orey Buil	DING			Boring Location: OU		_DG.	Sta	irt .	9:40AM	<u> </u>
Addres		659 Wisco				NORTH OF DRIV			Fin	ish _	10:00A	M_
<u> </u>	[	Jowners Gr	rove, Illinoi	<u></u> -T		I NORTH OF GAS		j				
Sample Number	Sample Type	Sample Recovery	Depth (feet)			Detailed Soil And Rock Description	,			PID (ppm)	COMMEN	IS
		95%	1 2			PSOIL, 2" CLAY LED GREY SILTY DME GRAVEL				11.8	NO MAJO EVIDENCE STAINING ODORS	E OF
	)RE		3 4							* 18.8	-√ SAMPLE	<u> </u>
	ACRO-CC	100%	5 6							* 22.0	COLLEC	TED
	LENGTH MACRO-CORE	. 33/3	— 7 — 7		STIFF, GREY	SILTY CLAY, TR.	SAND & GR	AVEL		1.0		
	DIAM, 4° L	100%	- 8 - 9 - 10							0.8		
-	1.5" (		— 11 — 12							8.0		
			— — 13		END OF BORI	NG (EOB)					*Sample Submit	ted
			— 14 — — 15		:		MOR 00060	)6			For An	ialysis
			s are ap			ion between soil types					· · · · · · · · · · · · · · · · · · ·	
Groundwater Data  Depth While Drilling  Rotary Depth						Drill Type: GEC	)PROBE	_	- N 1	λ 1	$\Lambda \square i$	
Depth After Drilling Dri					iller <u>Envirodynamics</u> Geologist <u>J. Virgilio</u> ole: Boring backfilled w/cultings unless otherwise noted.  ENVIA (  229 E. Custer Stre  Lemont, Illinois					_		

					0: 11	Pag	je: 7	of 7	
Project	No.:	20-65	6.02		Boring Number: B7	Date	: 1	6/2/2000	
Site N	ame: N	IOREY BUIL	DING		Boring Location: OUTSIDE OF BL	.DG. S	tart .	10:05 AM	
Addres		659 Wisco Jawners Gr	nsin Ave. rove, Illinois		APPROX. 10' EAST OF BORING B4	Fi	nish .	10:15 AM	
	Γ—— <u>`</u>	)	070, 11111013						
mber	ഉ	covery							
Sample Number	Sample Type	Sample Recovery	Depth (feet)		Detailed Soil And Rock Description		(mdd)		
Sam	Sam	Sam	Dept		1		<b>음</b>	COMMENTO	
				GRASS BLACK	CLAYEY TOPSOIL		}	COMMENTS NO MAJOR	
			1 -	ONASS, BEACK	CONTENT FOR SOIL		2.2	EVIDENCE OF STAINING OR	
		70%	_ 2 _	6" BROWN CL	AVEV EILI			ODORS	
			—		SILTY CLAY, TR. SAND, SOM		3.8		
	ORE		— 4 —	GRAVEL, STIFI	F	<b>L</b>		SAMPLE, COLLECTED	
	0-0		_				1.0	@ 4'	
	ACR	100%	—						
	LENGTH MACRO-CORE		- 7 -	STIFF, GREY	SILTY CLAY, TR. SAND & GR.	AVEL	0.8		
	ENG		_ ´ _ _ 8 _			·	0.0		
	-4		0 -	END OF BORI	ING (EOB)				
	DIAM,		- 40						
	.5.		10						
	<i>-</i> -		— 11 — — —						
			— 12 —						
			— 13 —	,				*Sample Submitted	
			14 <i></i>	:	MOR 0006	07		For Analysis	
			— 15 —						
	Stratific undwater				ion between soil types may be gradual.				
<b>V</b> G10	Depth	Vala While Dr RY		ger Depth tary Depth	• •	EN	1M	ARC	
$\nabla$		After Dr	illing Dri	ler <u>Envirodynamics</u>	Geologist <u>J. Virgilio</u>	229 E	. Cus	ster Street	
Y.	<u>D</u>	RY	N	Note: Boring backfilled w/cuttings unless otherwise noted.  Lemont, Illinois					

#### Attachment 2:

Laboratory Analysis Reports

# MOREY BUILDING, DOWNERS GROVE, IL ANALYSIS SUMMARY TABLE - CONSTITUENTS EXCEEDING IEPA STANDARDS Page 1 of 1

					AMPLEI.D.							IEPA TACC	TIER I STA	NDARDS,	PPM		
PARAMETERS				Re	esults in ppr	n				RESIDENTIAL		INDUSTRIAL /COMMERCIAL(2)				RESIDENTIAL & INDUSTRIAL- COMMERCIAL	
	S-1	B1	8-2	B-2	B-3	B-4	B-5	B-6	B-7	Ingestion	Inhalation	Industrial/Commercial		Construction Worker		Path to GW	
	@ 4'	(Inside) 1-3'	@ 8-10	@ 12-14'	<b>@</b> 4'	<b>@</b> 6-8	@ 4'	@ 4'	@ 4'			Ingestion	Inhalation	Ingestion	Inhalation	Class I	Class II
VOC's & SVOC (Volatileand S Compounds— only those const detection presented):		•															
Acetone	ND	0.281 B	0.241 B	0.292 B	0.159 B	0.652	0.225 B	0.236	0.272	7800	100,000	200,000	100,000	200,000	100,000	16	16
Benzene	ND	ND	0.00473	D	0.007	ND	0.00602	0.00835	0.007	22	0.8	200	1.5	4300	2.1	0.03	0.17
2-Butanone	ND	ND	ND	DM	ND	ND	ND	0.0472	ND		_		_			••	
1,3- Dichlorobenzene ⁽³⁾	2.72	NO	ND	ND	ND	ND	ND	ND	D	70	570	1800	570	180	570	0.2	10
1,4 - Dichlorobenzene	2.67	ND	ND	D	D	ND	ND	ND	ND		_	_	17,000		240	2	11
cis-1,2-Dicloroethene	3 11	ND	8 74	0 00634	D	0.023	0.0646	0.0388	ND	780	1200	20,000	1200	20,000	1200	04	11
trans-1,2-Dicloroethene	ND	ND	0 118	ND	ND	ND	0.00470	ND	ND	1600	3100	41,000	3100	41,000	3100	0.7	3 4
(bis)(2-Ethyl Hexyl)Phthalate	ND	0.194	NT	NT	NT	NT	ND	ND	ND		-	-			-	-	
Methylene chloride	ND	ND	0.00627 B	0 00723 B	0.009 B	0.006 B	ND	0 0124	ND	85	13	760	24	12,000	34	0.02	2
Tetrachloroethene	14.9	ND	66.7	0.0218	ND	3220.8	4,03	97.7	0.147	12	11	110	20	2400	28	0.06	0.3
Toluene	ND	ND	0 00725	ND	0 013	0.018	0.00922	0.0150	0.010	16000	650	410,000	650	410,000	42	12	29
Trichioroethene	0,618	ND	5.96	ND	ND	0.496	0.250	0.129	ND	58	5	520	8.9	1200	12	0.06	03
Vinyl Chloride	0.116	ND	ND	ND	ND	ND	ND	ND	ND	0.3	0 03	3	0 06	65	0 08	0.01	0 07

TACO -- Tiered Approach to Cleanup Objectives -- 35 IAC Part 742.

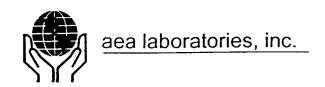
Notes Those levels exceeding Tier 1 standards are shaded.

NT => Not Tested due to lack of SVOC's at source discovered from initial sampling efforts (@ S-1).

⁽²⁾ Application of Commercial/Industrial Standards requires the use of an institutional control limited the use of the Property to Commercial/Industrial.

No objective established under TACO. Objective established by IEPA Office of Chemical Safety.

B => Acetone found in lab blank @ 0.0207ppm; => Methylene Chloride found in lab blank @ 0.0162mg/kg.



# LABORATORY DATA REPORT

CLIENT

Enmarc

229 E. Custer Street Lemont, Illinois 60439

PROJECT NAME

: MOREY BLDG, DOWNERS GROVE, IL

NUMBER#

: 20.565 : N/A

TASK ORDER

: J. Virgilio

ATTN RECEIVED

: 06/02/00 : 06/14/00

REPORTED FILE ID#

: 00005360 THRU 00005368

#### **PROJECT SUMMARY:**

Analyses were performed in accordance with the methods found in the USEPA publication: <u>Test Methods for Evaluating Solid Waste, Physical/Chemical methods, SW- 846, 3rd Edition, December 1996.</u> Specific method references are listed on the analytical report.

Results have been expressed on a "wet" weight (as received) basis except where otherwise specified .

All analyses were performed within established holding times, and all Quality Control criteria as outlined in the methods have been met.

LABORATORY DIRECTOR armente & hor





IN#60819

LABORATORIES, INC.

DBA: AMERICAN-ATHENA LABORATORIES

LABORATORY TESTING OF SOIL **WATER AND HAZARDOUS WASTE** 

8609 W. Bryn Mawr, Suite 201, Chicago, IL 60631-3524 Tel: 773-693-8030 Fax: 773-693-8783 888-AEA-TEST Web: http://www.aeatest.com

### **CHAIN OF CUSTODY**

Client: ENMARC	Project Name: MORLY BLDG., Downers Gare, I						
Address: 229 E. Cush St.	Sampler Name: J. Vizgilio						
Lemont, Il 60439	Project #: 20-656						
Report to: J. Vivgilio	Time Period: 5 Day 4 Day 3 Day 2 Day 1 Day <24Hr.						
Phone #: 630/257-9357 Fax #: 630/257-1650	Date Needed: 6-9-00						

						t t
Report to: J. Virgilio				7	Time Period: 5 Day 4 Day 3 Day 2 Day 1 L	Day <24Hr.
Phone #: 630/257-9357 Fax #	¥: <u>(</u>	130/25	57-16	50 [	Date Needed: 6-9-00	
Field ID; Location	Matrix	rime_		Cont.	Parameters Requested A	EA ID#
1 B1 C 1-3' E.	50:/	6-2-00	VOAS	- 3	Vocs i svocs (-also segul 00 :	5369
2 82 € 8-10' €			29.61 VOA'S	-3	Vocs usbs 00005	361
3 BZ C 12-14' E			5		Extract : Hold UUU	5362
4 B3 € 4' E		1			Vocs 0001	5363
5 B4 COMM' 2-4' E					Extradithold 000	05364
6 B4 C 6-8' E		-			Vocs 0000:	
7 85 C 4' E				<u> </u>	Vocs 0000	<del></del>
8 B6 C 4' E		<del>                                     </del>			vocs 0000;	
9 B7C 4' E	1	+	1	<u> </u>	VOCS UUDO	5:368
10				ļ		
11					Note = VOA Bothes muked	
12				<u> </u>	W/an "E" indicates Sample Efferniscal	· ·
13				ļ	w/ preservative	
14			<u> </u>	ļ		
15				<u> </u>		
Sample Preserved: ON Condition of Samp.	le(s): (	Good) Viola	ated w	LOSSAF ATRIX=Soi	vii(S), Air(A), Water(W), Drinking Water(DW), Wipe(P), Other(O).	-Accept, R=Reject
Preservative Type: Tc&+ Temp. of Container		< 4°C	_ CC PF	ONTAINER: RESERVAT	=40ml Vial(A), 60ml Vial(B), 2oz(C), 4oz(D), 8oz(E), 1Liter(F), Glass(G), Plastic(P), TIVE=HCI, HNO3, H2SO4, NaOH, MeCI, Other(O). I=ice. N/A=Not App	
5035 VOAS ->(1) HOH+ (2) 4	445	Dy				
Relinquished by: Jack Vigel	•	-7	e/Time:	6-2-	-uu/II AM Accepted by Wis	710
Relinquished by:		Date	Accepted by Accepted by	48 2 <b>0</b> 0		



Enmarc 229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Fax No.: (630) 257 Attn: J. Virgilio First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### **ANALYTICAL REPORT**

Field ID Lab Number Description			B1 AF05360 1-3'	·		
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
SW-846 3550B	SONICATION PREP-BNA	-	6/05/00	-	06/05/00	EQ
SW-846 8270C	Semi-Volatiles by 8270	-	-	mg/kg	06/05/00	EN
	1,2,4-Trichlorobenzene	0.0784	< Stated MDL		06/05/00	EN
	1,2-Dichlorobenzene	0.0784	< Stated MDL		06/05/00	EN
•	1,3-Dichlorobenzene	0.0784	< Stated MDL		06/05/00	EN
	1,4-Dichlorobenzene	0.0784	< Stated MDL		06/05/00	EN
	2,4,5-Tichlorophenol	0.117	< Stated MDL		06/05/00	EN
	2,4,6-Trichlorophenol	0.117	< Stated MDL		06/05/00	EN
	2,4-Dichlorophenol	0.117	< Stated MDL		06/05/00	EN
	2,4-Dimethylphenol	0.0784	< Stated MDL		06/05/00	EN
	2,4-Dinitrophenol	0.0784	< Stated MDL		06/05/00	EN
	2,4-Dinitrotoluene	0.0784	< Stated MDL		06/05/00	EN
•	2,6-Dinitrotoluene	0.0784	< Stated MDL		06/05/00	EN
	2-Chloronaphthalene	0.0784	< Stated MDL		06/05/00	EN
	2-Chlorophenol	0.117	< Stated MDL		06/05/00	EN
	2-Methylnaphthalene	0.0784	< Stated MDL		06/05/00	EN
	2-methylphenol	0.0784	< Stated MDL		06/05/00	EN
	2-Nitroaniline	0.0784	< Stated MDL		06/05/00	EN
	2-Nitrophenol	0.0971	< Stated MDL		06/05/00	EN
	3,3-Dichlorobenzidine	0.0784	< Stated MDL		06/05/00	EN
	3-Nitroaniline	0.0784	< Stated MDL		06/05/00	EN
•	4,6-Dinitro-2-methylphenol	0.0784	< Stated MDL		06/05/00	EN
•	4-Bromophenyl-phenylether	0.0784	< Stated MDL		06/05/00	EN
	4-Chloro-3-methylphenol	0.0784	< Stated MDL		06/05/00	EN
	4-Chloroaniline	0.0784	< Stated MDL		06/05/00	EN
	4-Chlorophenyl-phenylether	0.0784	< Stated MDL		06/05/00	EN
	4-Methylphenol	0.0784	< Stated MDL		06/05/00	EN
	4-Nitroaniline	0.0784	< Stated MDL		06/05/00	EN
	4-Nitrophenol	0.0784	< Stated MDL		06/05/00	EN
	Acenaphthene	0.0784	< Stated MDL		06/05/00	EN
	Acenaphthylene	0.0784	< Stated MDL		06/05/00	EN
	Anthracene	0.0784	< Stated MDL		06/05/00	EN
•	Benzo[a]anthracene	0.0784	< Stated MDL		06/05/00	EN
	Benzo[a]pyrene	0.0784	< Stated MDL		06/05/00	EN
	Benzo[b]fluoranthene	0.0784	< Stated MDL		06/05/00	EN
	Benzo[g,h,i]perylene	0.0784	< Stated MDL		06/05/00	EN
	Benzo[k]fluoranthene	0.0784	< Stated MDL		06/05/00	EN
	Benzyl alcohol	0.0784	< Stated MDL		06/05/00	EN



Enmarc 229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00 Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B1 AF05360 1-3'			
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
	bis (2-Chloroethoxy) methane	0.0784	< Stated MDL		06/05/00	EN
	bis (2-Chloroethyl) ether	0.0784	< Stated MDL		06/05/00	EN
	bis (2-Chloroisopropyl) ether	0.0784	< Stated MDL		06/05/00	EN
	bis(2-Ethylhexyl)phthalate	0.0784	0.194		06/05/00	EN
	Butylbenzylphthalate	0.0784	< Stated MDL		06/05/00	EN
	Chrysene	0.0784	< Stated MDL		06/05/00	EN
	Dibenz[a,h]anthracene	0.0784	< Stated MDL		06/05/00	EN
	Dibenzofuran	0.0784	< Stated MDL		06/05/00	EN
	Diethylphthalate	0.0784	< Stated MDL		06/05/00	EN
	Dimethylphthalate	0.0784	< Stated MDL		06/05/00	EN
	Di-n-butylphthalate	0.117	< Stated MDL		06/05/00	EN
	Di-n-octylphthalate	0.0784	< Stated MDL		06/05/00	EN
	Fluoranthene	0.0784	< Stated MDL		06/05/00	EN
	Fluorene	0.0784	< Stated MDL		06/05/00	EN
	Hexachlorethane	0.0784	< Stated MDL		06/05/00	EN
	Hexachlorobenzene	0.0971	< Stated MDL		06/05/00	EN
	Hexachlorobutadiene	0.0784	< Stated MDL		06/05/00	EN
	Hexachlorocyclopentadienes	0.0784	< Stated MDL		06/05/00	EN
	Indeno[1,2,3-cd]pyrene	0.0784	< Stated MDL		06/05/00	EN
	Isophorone	0.0784	< Stated MDL		06/05/00	EN
	Naphthalene	0.0784	< Stated MDL		06/05/00	EN
•	Nitrobenzene	0.0784	< Stated MDL		06/05/00	EN
	n-Nitroso-di-n-propylamine	0.0784	< Stated MDL		06/05/00	EN
	n-Nitrsodiphenylamine	0.0784	< Stated MDL		06/05/00	EN
• •	Pentachlorophenol	0.0971	< Stated MDL		06/05/00	EN
	Phenanthrene	0.0784	< Stated MDL		06/05/00	EN
	Phenol	0.0784	< Stated MDL		06/05/00	EN
	Pyrene	0.0784	< Stated MDL		06/05/00	EN
	i					
SW-846 5035	Volatile Prep by 5035	•	06/02/00	-	06/02/00	JCZ
SW-846 8260B	Volatiles by 8260B	•	-	mg/kg	06/13/00	AS
	1,1,1,2-Tetrachloroethane	0.0064	< Stated Limit		06/13/00	AS
	1,1,1-Trichloroethane	0.0064	< Stated Limit		06/13/00	AS
	1,1,2,2-Tetrachloroethane	0.0064	< Stated Limit		06/13/00	AS
•	1,1,2-Trichloroethane	0.0064	< Stated Limit		06/13/00	AS
	1,1-Dichloro-1-propene	0.0064	< Stated Limit		06/13/00	AS
	1,1-Dichloroethane	0.0064	< Stated Limit		06/13/00	AS
	1,1-Dichloroethene	0.0064	< Stated Limit		06/13/00	AS
	1,2,3-Trichlorobenzene	0.0064	< Stated Limit		06/13/00	AS
	1,2,3-Trichloropropane	0.0064	< Stated Limit		06/13/00	AS



**Enmarc** 229 E. Custer Street Lemont, Illinois 60439

Fax No.: (630) 257-1650 Attn: J. Virgilio

Naphthalene

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

Project No.: 20.565

Sampled: 06/02/00 Received: 06/02/00 Date Reported: 06/14/00

#### **ANALYTICAL REPORT**

Field ID			B1			
Lab Number			AF05360			
Description			1-3'			
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
		Limit (dry wt.)	(4.)		/ mary 515 Date	Milalyst
	1,2,4-Trichlorobenzene	0.0064	< Stated Limit		06/13/00	AS
	1,2,4-Trimethylbenzene	0.0064	< Stated Limit		06/13/00	AS
	1,2-Dibromo-3-chloropropane	0.0064	< Stated Limit		06/13/00	AS
	1,2-Dibromoethane	0.0064	< Stated Limit		06/13/00	AS
	1,2-Dichlorobenzene	0.0064	< Stated Limit		06/13/00	AS
	1,2-Dichloroethane	0.0064	< Stated Limit		06/13/00	AS
	1,2-Dichloropropane	0.0064	< Stated Limit		06/13/00	AS
	1,3,5-Trimethylbenzene	0.0064	< Stated Limit		06/13/00	AS
	1,3-Dichlorobenzene	0.0064	< Stated Limit		06/13/00	AS
	1,3-Dichloropropane	0.0064	< Stated Limit		06/13/00	AS
	1,4-Dichlorobenzene	0.0064	< Stated Limit		06/13/00	AS
	2,2-Dichloropropane	0.0064	< Stated Limit		06/13/00	AS
	2-Butanone (MEK)	0.0128	< Stated Limit		06/13/00	AS
	2-Chlorotoluene	0.0064	< Stated Limit		06/13/00	AS
	2-Hexanone	0.0128	< Stated Limit		06/13/00	AS
	4-Chlorotoluene	0.0064	< Stated Limit		06/13/00	AS
	4-Methyl-2-Pentanone (MIBK)	0.0128	< Stated Limit		06/13/00	AS
	Acetone	0.0128	0.281 B		06/13/00	AS
	Benzene	0.0064	< Stated Limit		06/13/00	AS
	Bromobenzene	0.0064	< Stated Limit		06/13/00	AS
	Bromochloromethane	0.0064	< Stated Limit		06/13/00	AS
200	Bromodichloromethane	0.0064	< Stated Limit		06/13/00	AS
· · · ·	Bromoform	0.0064	< Stated Limit		06/13/00	AS
	Bromomethane	0.0064	< Stated Limit		06/13/00	AS
	Carbon disulfide	0.0128	< Stated Limit		06/13/00	AS
•	Carbon tetrachloride	0.0064	< Stated Limit		06/13/00	AS
	Chlorobenzene	0.0064	< Stated Limit		06/13/00	AS
	Chlorodibromomethane	0.0064	< Stated Limit		06/13/00	AS
	Chloroethane	0.0064	< Stated Limit		06/13/00	AS
	Chloroform	0.0064	< Stated Limit		06/13/00	AS
	Chloromethane	0.0064	< Stated Limit		06/13/00	AS
	cis-1,2-Dichloroethene	0.0064	< Stated Limit		06/13/00	AS
	cis-1,3-Dichloropropene	0.0064	< Stated Limit		06/13/00	AS
	Dibromomethane	0.0064	< Stated Limit		06/13/00	AS
-	Dichlorodifluoromethane	0.0064	< Stated Limit		06/13/00	AS
•	Ethylbenzene	0.0064	< Stated Limit		06/13/00	AS
	Hexachlorobutadiene	0.0064	< Stated Limit		06/13/00	AS
	Isopropylbenzene (Cumene)	0.0064	< Stated Limit		06/13/00	AS
	m,p,-Xylenes	0.0128	< Stated Limit		06/13/00	AS
	Methylene chloride	0.0064	< Stated Limit		06/13/00	AS

AS

< Stated Limit

06/13/00

0.0064



Enmarc 229 E. Custer Street Lemont, Illinois 60439

Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360

Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

Project No.: 20.565

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### **ANALYTICAL REPORT**

Field ID			B1			
Lab Number			AF05360			
Description			1-3'			
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
	-	Limit (dry wt.)			-	_
	n-Butylbenzene	0.0064	< Stated Limit		06/13/00	AS
	o-Xylene	0.0064	< Stated Limit		06/13/00	AS
	p-Isopropyltoluene (Cymene)	0.0064	< Stated Limit		06/13/00	AS
	Propylbenzene	0.0064	< Stated Limit		06/13/00	AS
	sec-Butylbenzene	0.0064	< Stated Limit		06/13/00	AS
•	Styrene	0.0064	< Stated Limit		06/13/00	AS
	tert-Butylbenzene	0.0064	< Stated Limit		06/13/00	AS
	Tetrachloroethene	0.0064	< Stated Limit		06/13/00	ÆS
	Toluene	0.0064	< Stated Limit		06/13/00	AS
	trans-1,2-Dichloroethene	0.0064	< Stated Limit		06/13/00	AS
	trans-1,3-Dichloropropene	0.0064	< Stated Limit		06/13/00	AS
	Trichloroethene	0.0064	< Stated Limit		06/13/00	AS
	Trichlorofluoromethane	0.0064	< Stated Limit		06/13/00	AS
	Vinyl chloride	0.0064	< Stated Limit		06/13/00	AS
SM 2540 B.	% Moisture	0.1	14.8	%	06/06/00	JM

B≈Acetone was found in the method blank at 0.0207 mg/kg. Analytes reported on dry weight basis except for Moisture. AEA Laboratories, Inc.

Arminta P. Priddy
Laboratory Director



**Enmarc** 229 E. Custer Street Lemont, Illinois 60439

Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B2 AF05361 8-01'	:		
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
SW-846 5035	Volatile Prep by 5035		06/02/00	-	06/02/00	JCZ
SW-846 8260B	Volatiles by 8260B	•	•	mg/kg	06/13/00	AS
	1,1,1,2-Tetrachloroethane	0.0041	< Stated Limit	3 3	06/13/00	AS
	1,1,1-Trichloroethane	0.0041	< Stated Limit		06/13/00	AS
•	1,1,2,2-Tetrachloroethane	0.0041	< Stated Limit		06/13/00	AS
	1,1,2-Trichloroethane	0.0041	< Stated Limit		06/13/00	AS
	1,1-Dichloro-1-propene	0.0041	< Stated Limit		06/13/00	AS
	1,1-Dichloroethane	0.0041	< Stated Limit		06/13/00	AS
	1,1-Dichloroethene	0.0041	< Stated Limit		06/13/00	AS
	1,2,3-Trichlorobenzene	0.0041	< Stated Limit		06/13/00	AS
	1,2,3-Trichloropropane	0.0041	< Stated Limit		06/13/00	AS
	1,2,4-Trichlorobenzene	0.0041	< Stated Limit		06/13/00	AS
	1,2,4-Trimethylbenzene	0.0041	< Stated Limit		06/13/00	AS
•	1,2-Dibromo-3-chloropropane	0.0041	< Stated Limit		06/13/00	AS
	1,2-Dibromoethane	0.0041	< Stated Limit		06/13/00	AS
	1,2-Dichlorobenzene	0.0041	< Stated Limit		06/13/00	AS
	1,2-Dichloroethane	0.0041	< Stated Limit		06/13/00	AS
	1,2-Dichloropropane	0.0041	< Stated Limit		06/13/00	AS
•	1,3,5-Trimethylbenzene	0.0041	< Stated Limit		06/13/00	AS
Net 2.	1,3-Dichlorobenzene	0.0041	< Stated Limit		06/13/00	AS
	1,3-Dichloropropane	0.0041	< Stated Limit		06/13/00	AS
	1,4-Dichlorobenzene	0.0041 .	< Stated Limit		06/13/00	AS
•	2,2-Dichloropropane	0.0041	< Stated Limit		06/13/00	AS
	2-Butanone (MEK)	0.0082	< Stated Limit		06/13/00	AS
	2-Chlorotoluene	0.0041	< Stated Limit		06/13/00	AS
	2-Hexanone	0.0082	< Stated Limit		06/13/00	AS
	4-Chiorotoluene	0.0041	< Stated Limit		06/13/00	AS
	4-Methyl-2-Pentanone (MIBK)	0.0082	< Stated Limit		06/13/00	AS
	Acetone	0.0082	0.241 B		06/13/00	AS
	Benzene	0.0041	0.00473		06/13/00	AS
	Bromobenzene	0.0041	< Stated Limit		06/13/00	AS
	Bromochloromethane	0.0041	< Stated Limit		06/13/00	AS
•	Bromodichloromethane	0.0041	< Stated Limit		06/13/00	AS
	Bromoform	0.0041	< Stated Limit		06/13/00	AS
	Bromomethane	0.0041	< Stated Limit		06/13/00	AS
	Carbon disulfide	0.0082	< Stated Limit		06/13/00	AS
	Carbon tetrachloride	0.0041	< Stated Limit		06/13/00	AS
	Chlorobenzene	0.0041	< Stated Limit		06/13/00	AS





**Enmarc** 229 E. Custer Street Lemont, Illinois 60439

Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### **ANALYTICAL REPORT**

Field ID  Lab Number  Description		·	B2 AF05361 8-01'			
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
		Limit (dry wt.)				
	Chlorodibromomethane	0.0041	< Stated Limit		06/13/00	AS
	Chloroethane	0.0041	< Stated Limit		06/13/00	AS
	Chloroform	0.0041	< Stated Limit		06/13/00	AS
	Chloromethane	0.0041	< Stated Limit		06/13/00	AS
•	cis-1,2-Dichloroethene	0.916	8.74		06/14/00	AS
	cis-1,3-Dichloropropene	0.0041	< Stated Limit		06/13/00	AS
	Dibromomethane	0.0041	< Stated Limit		06/13/00	AS
	Dichlorodifluoromethane	0.0041	< Stated Limit		06/13/00	AS
	Ethylbenzene	0.0041	< Stated Limit		06/13/00	AS
	Hexachlorobutadiene	0.0041	< Stated Limit		06/13/00	AS
	Isopropylbenzene (Cumene)	0.0041	< Stated Limit		06/13/00	AS
	m,p,-Xylenes	0.0082	< Stated Limit		06/13/00	AS
	Methylene chloride	0.0041	0.00627 B		06/13/00	AS
	Naphthalene	0.0041	< Stated Limit		06/13/00	AS
	n-Butylbenzene	0.0041	< Stated Limit		06/13/00	AS
	o-Xylene	0.0041	< Stated Limit		06/13/00	AS
	p-Isopropyltoluene (Cymene)	0.0041	< Stated Limit		06/13/00	AS
	Propylbenzene	0.0041	< Stated Limit		06/13/00	AS
	sec-Butylbenzene	0.0041	< Stated Limit		06/13/00	AS
	Styrene	0.0041	< Stated Limit		06/13/00	AS
•	tert-Butylbenzene	0.0041	< Stated Limit		06/13/00	AS
	Tetrachloroethene	0.916	66.7		06/14/00	AS
	Toluene	0.0041	0.00725		06/13/00	AS
	trans-1,2-Dichloroethene	0.0041	0.118		06/13/00	AS
	trans-1,3-Dichloropropene	0.0041	< Stated Limit		06/13/00	AS
•	Trichloroethene	0.916	5.96		06/14/00	AS
	Trichlorofluoromethane	0.0041	< Stated Limit		06/13/00	AS
	Vinyl chloride .	0.0041	< Stated Limit		06/13/00	AS
	1					

B=Methylene chloride was found in the method blank at 0.00714 mg/kg and acetone was at 0.0207 mg/kg. Analytes reported on dry weight basis except for Moisture. AEA Laboratories, Inc.

0.1

17.3

Arminta P. Priddy Laboratory Director

% Moisture

SM 2540 B.

MOR 000617

06/06/00

%

JM



Enmarc 229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00

Received: 06/02/00 Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B2 AF05362 12-14'			
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
SW-846 5035	Volatile Prep by 5035	-	06/02/00	-	06/02/00	JV
SW-846 8260B	Volatiles by 8260B	-	-	mg/kg	06/13/00	AS
	1,1,1,2-Tetrachloroethane	0.00568	< Stated Limit		06/13/00	AS
	1,1,1-Trichloroethane	0.00568	< Stated Limit		06/13/00	AS
	1,1,2,2-Tetrachloroethane	0.00568	< Stated Limit	*	06/13/00	AS
	1,1,2-Trichloroethane	0.00568	< Stated Limit		06/13/00	<b>A</b> S
	1,1-Dichloro-1-propene	0.00568	< Stated Limit		06/13/00	AS
	1,1-Dichloroethane	0.00568	< Stated Limit		06/13/00	AS
	1,1-Dichloroethene	0.00568	< Stated Limit	•	06/13/00	AS
	1,2,3-Trichlorobenzene	0.00568	< Stated Limit		06/13/00	AS
	1,2,3-Trichloropropane	0.00568	< Stated Limit		06/13/00	AS -
	1,2,4-Trichlorobenzene	0.00568	< Stated Limit		06/13/00	AS
	1,2,4-Trimethylbenzene	0.00568	< Stated Limit		06/13/00	AS
	1,2-Dibromo-3-chloropropane	0.00568	< Stated Limit		06/13/00	AS
	1,2-Dibromoethane	0.00568	< Stated Limit		06/13/00	AS
	1,2-Dichlorobenzene	0.00568	< Stated Limit		06/13/00	AS
	1,2-Dichloroethane	0.00568	< Stated Limit		06/13/00	AS
	1,2-Dichloropropane	0.00568	< Stated Limit		06/13/00	AS
	1,3,5-Trimethylbenzene	0.00568	< Stated Limit		06/13/00	AS
•	1,3-Dichlorobenzene	0.00568	< Stated Limit 👾	*	06/13/00	AS
	1,3-Dichloropropane	0.00568	< Stated Limit		06/13/00	AS
	1,4-Dichlorobenzene	0.00568	< Stated Limit		06/13/00	AS
•	2,2-Dichloropropane	0.00568	< Stated Limit		06/13/00	AS
	2-Butanone (MEK)	0.0114	< Stated Limit		06/13/00	AS
	2-Chlorotoluene	0.00568	< Stated Limit		06/13/00	AS
	2-Hexanone	0.0114	< Stated Limit		06/13/00	AS
	4-Chlorotoluene	0.00568	< Stated Limit		06/13/00	AS
	4-Methyl-2-Pentanone (MIBK)	0.0114	< Stated Limit		06/13/00	AS
	Acetone	0.0114	0.292 B		06/13/00	AS
	Benzene	0.00568	< Stated Limit		06/13/00	AS
	Bromobenzene	0.00568	< Stated Limit		06/13/00	AS
	Bromochloromethane	0.00568	< Stated Limit		06/13/00	AS
•	Bromodichloromethane	0.00568	< Stated Limit		06/13/00	AS
	Bromoform	0.00568	< Stated Limit		06/13/00	AS
	Bromomethane	0.00568	< Stated Limit		06/13/00	AS
	Carbon disulfide	0.0114	< Stated Limit		06/13/00	AS
	Carbon tetrachloride	0.00568	< Stated Limit		06/13/00	AS
	Chlorobenzene	0.00568	< Stated Limit		06/13/00	AS



229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

Project No.: 20.565

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description		· · ·	B2 AF05362 12-14'			
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
		Limit (dry wt.)				
	Chlorodibromomethane	0.00568	< Stated Limit		06/13/00	AS
	Chloroethane	0.00568	< Stated Limit		06/13/00	AS
	Chloroform	0.00568	< Stated Limit		06/13/00	AS
	Chloromethane	0.00568	< Stated Limit		06/13/00	AS
	cis-1,2-Dichtoroethene	0.00568	0.00634		06/13/00	AS
	cis-1,3-Dichloropropene	0.00568	< Stated Limit		06/13/00	AS
	Dibromomethane	0.00568	< Stated Limit	•	06/13/00	AS
	Dichlorodifluoromethane	0.00568	< Stated Limit		06/13/00	As
	Ethylbenzene	0.00568	< Stated Limit		06/13/00	AS
	Hexachlorobutadiene	0.00568	< Stated Limit		06/13/00	AS
	Isopropylbenzene (Cumene)	0.00568	< Stated Limit		06/13/00	AS
	m,p,-Xylenes	0.0114	< Stated Limit		06/13/00	AS
	Methylene chloride	0.00568	0.00723 B		06/13/00	AS
	Naphthalene	0.00568	< Stated Limit		06/13/00	AS
	n-Butylbenzene	0.00568	< Stated Limit		06/13/00	AS
	o-Xylene	0.00568	< Stated Limit		06/13/00	AS
	p-Isopropyltoluene (Cymene)	0.00568	< Stated Limit		06/13/00	AS
	Propylbenzene	0.00568	< Stated Limit		06/13/00	AS
	sec-Butylbenzene	0.00568	< Stated Limit		06/13/00	AS
	Styrene	0.00568	< Stated Limit		06/13/00	AS
	tert-Butylbenzene	0.00568	< Stated Limit		06/13/00	AS
	Tetrachloroethene	0.00568	0.0218		06/13/00	AS
	Toluene	0.00568	< Stated Limit	•	06/13/00	AS
	trans-1,2-Dichloroethene	0.00568	< Stated Limit		06/13/00	AS
	trans-1,3-Dichloropropene	0.00568	< Stated Limit		06/13/00	AS
•	Trichloroethene	0.00568	< Stated Limit		06/13/00	AS
	Trichlorofluoromethane	0.00568	< Stated Limit		06/13/00	AS
	Vinyl chloride	0.00568	< Stated Limit		06/13/00	AS

B=Methylene chloride was found in the method blank at 0.00714 mg/kg and acetone was at 0.0207 mg/kg. Used sample B2@8-10( for moisture

17.3

Analytes reported on dry weight basis except for Moisture.

AEA Laboratories, Inc.

% Moisture

armenta P. Arminta P. Priddy **Laboratory Director** 

SM 2540 B.

MOR 000619

06/05/00

%



JM

0.1



Enmarc 229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B3 AF05363 4'		e e e e e e e e e e e e e e e e e e e	٠
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
SW-846 5035	Volatile Prep by 5035	-	06/02/00	-	06/02/00	JCZ
SW-846 8260B	Volatiles by 8260B	•	-	mg/kg	06/13/00	AS
	1,1,1,2-Tetrachloroethane	0.00485	< Stated Limit		06/13/00	AS
	1,1,1-Trichloroethane	0.00485	< Stated Limit		06/13/00	AS
	1,1,2,2-Tetrachloroethane	0.00485	< Stated Limit		06/13/00	AS
	1,1,2-Trichloroethane	0.00485	< Stated Limit		06/13/00	A'S
	1,1-Dichloro-1-propene	0.00485	< Stated Limit		06/13/00	AS
	1,1-Dichloroethane	0.00485	< Stated Limit		06/13/00	AS
	1,1-Dichloroethene	0.00485	< Stated Limit		06/13/00	AS
	1,2,3-Trichlorobenzene	0.00485	< Stated Limit		06/13/00	AS
	1,2,3-Trichloropropane	0.00485	< Stated Limit		06/13/00	AS
	1,2,4-Trichlorobenzene	0.00485	< Stated Limit		06/13/00	AS
	1,2,4-Trimethylbenzene	0.00485	< Stated Limit		06/13/00	AS
	1,2-Dibromo-3-chloropropane	0.00485	< Stated Limit		06/13/00	AS
	1,2-Dibromoethane	0.00485	< Stated Limit		06/13/00	AS
	1,2-Dichlorobenzene	0.00485	< Stated Limit		06/13/00	AS
	1,2-Dichloroethane	0.00485	< Stated Limit		06/13/00	AS
	1,2-Dichloropropane	0.00485	< Stated Limit		06/13/00	AS
	1,3,5-Trimethylbenzene	0.00485	< Stated Limit		06/13/00	AS
	1,3-Dichlorobenzene	0.00485	< Stated Limit		06/13/00	AS
	1,3-Dichloropropane	0.00485	< Stated Limit		06/13/00	AS
	1,4-Dichlorobenzene	0.00485	< Stated Limit		06/13/00	AS
,	2,2-Dichloropropane	0.00485	< Stated Limit		06/13/00	AS
	2-Butanone (MEK)	0.0097	< Stated Limit		06/13/00	AS
	2-Chlorotoluene	0.00485	< Stated Limit		06/13/00	AS
	2-Hexanone .	0.0097	< Stated Limit		06/13/00	AS
	4-Chlorotoluene	0.00485	< Stated Limit		06/13/00	AS
	4-Methyl-2-Pentanone (MIBK)	0.0097	< Stated Limit		06/13/00	AS
	Acetone	0.0097	0.159 B		06/13/00	AS
	Benzene	0.00485	0.007		06/13/00	AS
	Bromobenzene	0.00485	< Stated Limit		06/13/00	AS
	Bromochloromethane	0.00485	< Stated Limit		06/13/00	AS
-	Bromodichloromethane	0.00485	< Stated Limit		06/13/00	AS
	Bromoform	0.00485	< Stated Limit		06/13/00	AS
	Bromomethane	0.00485	< Stated Limit		06/13/00	AS
	Carbon disulfide	0.0097	< Stated Limit		06/13/00	AS
	Carbon tetrachloride	0.00485	< Stated Limit		06/13/00	AS
	Chlorobenzene	0.00485	< Stated Limit		06/13/00	AS





229 E. Custer Street Lemont, Illinois 60439

Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### **ANALYTICAL REPORT**

Field ID Lab Number Description	,		B3 AF05363 4'			
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
		Limit (dry wt.)				
	Chlorodibromomethane	0.00485	< Stated Limit		06/13/00	AS
	Chloroethane	0.00485	< Stated Limit		06/13/00	AS
	Chloroform	0.00485	< Stated Limit		06/13/00	AS
	Chloromethane	0.00485	< Stated Limit		06/13/00	AS
	cis-1,2-Dichloroethene	0.00485	< Stated Limit		06/13/00	AS
	cis-1,3-Dichloropropene	0.00485	< Stated Limit		06/13/00	AS
	Dibromomethane	0.00485	< Stated Limit		06/13/00	AS
	Dichlorodifluoromethane	0.00485	< Stated Limit		06/13/00	A'S
	Ethylbenzene	0.00485	< Stated Limit		06/13/00	AS
	Hexachlorobutadiene	0.00485	< Stated Limit		06/13/00	AS
	Isopropylbenzene (Cumene)	0.00485	< Stated Limit		06/13/00	AS
	m,p,-Xylenes	0.0097	< Stated Limit		06/13/00	AS
	Methylene chloride	0.00485	0.009 B		06/13/00	AS
	Naphthalene	0.00485	< Stated Limit		06/13/00	AS
	n-Butylbenzene	0.00485	< Stated Limit		06/13/00	AS
	o-Xylene	0.00485	< Stated Limit		06/13/00	AS
	p-Isopropyltoluene (Cymene)	0.00485	< Stated Limit		06/13/00	AS
	Propylbenzene	0.00485	< Stated Limit		06/13/00	AS
	sec-Butylbenzene	0.00485	< Stated Limit		06/13/00	AS
	Styrene	0.00485	< Stated Limit		06/13/00	AS
	tert-Butylbenzene	0.00485	< Stated Limit		06/13/00	AS
	Tetrachloroethene	0.00485	< Stated Limit		06/13/00	AS
	Toluene	0.00485	0.013		06/13/00	AS
	trans-1,2-Dichloroethene	0.00485	< Stated Limit		06/13/00	AS
	trans-1,3-Dichloropropene	0.00485	< Stated Limit		06/13/00	AS
•	Trichloroethene	0.00485	< Stated Limit		06/13/00	AS
	Trichlorofluoromethane	0.00485	< Stated Limit		06/13/00	AS
	Vinyl chloride	0.00485	< Stated Limit		06/13/00	AS

B=Methylene chloride was found in the method blank at 0.0162 mg/kg and acetone was at 0.0179 mg/kg. Analytes reported on dry weight basis except for Moisture. AEA_Laboratories, Inc.

13.8

0.1

Arminta P. Priddy Laboratory Director

% Moisture

SM 2540 B.

MOR 000621

06/06/00

%

JM



Enmarc 229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B4 AF05365 6-8'			
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
SW-846 5035	Volatile Prep by 5035	-	06/02/00	-	06/02/00	JCZ
SW-846 8260B	Volatiles by 8260B	-	-	mg/kg	06/13/00	AS
	1,1,1,2-Tetrachloroethane	0.0054	< Stated Limit		06/13/00	AS
	1,1,1-Trichloroethane	0.0054	< Stated Limit		06/13/00	AS
	1,1,2,2-Tetrachloroethane	0.0054	Stated Limit		06/13/00	AS
	1,1,2-Trichloroethane	0.0054	< Stated Limit		06/13/00	ÁS
	1,1-Dichloro-1-propene	0.0054	< Stated Limit		06/13/00	AS
	1,1-Dichloroethane	0.0054	< Stated Limit		06/13/00	AS
	1,1-Dichloroethene	0.0054	< Stated Limit		06/13/00	AS
	1,2,3-Trichlorobenzene	0.0054	< Stated Limit		06/13/00	AS.
	1,2,3-Trichloropropane	0.0054	< Stated Limit		06/13/00	AS
	1,2,4-Trichlorobenzene	0.0054	< Stated Limit		06/13/00	AS
	1,2,4-Trimethylbenzene	0.0054	< Stated Limit		06/13/00	AS
	1,2-Dibromo-3-chloropropane	0.0054	< Stated Limit		06/13/00	AS
	1,2-Dibromoethane	0.0054	< Stated Limit		06/13/00	AS
	1,2-Dichlorobenzene	0.0054	< Stated Limit		06/13/00	AS
	1,2-Dichloroethane	0.0054	< Stated Limit		06/13/00	AS
	1,2-Dichloropropane	0.0054	< Stated Limit		06/13/00	AS
	1,3,5-Trimethylbenzene	0.0054	< Stated Limit		06/13/00	AS
	1,3-Dichlorobenzene	0.0054	< Stated Limit		06/13/00	AS
	1,3-Dichloropropane	0.0054	< Stated Limit 🗎		06/13/00	AS
	1,4-Dichlorobenzene	0.0054	< Stated Limit		06/13/00	AS
_	2,2-Dichloropropane	0.0054	< Stated Limit		06/13/00	AS
	2-Butanone (MEK)	0.0108	< Stated Limit		06/13/00	AS
	2-Chlorotoluene	0.0054	< Stated Limit		06/13/00	AS
	2-Hexanone	0.0108	< Stated Limit		06/13/00	AS
	4-Chlorotoluene	0.0054	< Stated Limit		06/13/00	AS
	4-Methyl-2-Pentanone (MIBK)	0.0108	< Stated Limit		06/13/00	AS
	Acetone	0.0108	0.652 B		06/13/00	AS
	Benzene	0.0054	< Stated Limit		06/13/00	AS
	Bromobenzene	0.0054	< Stated Limit		06/13/00	AS
	Bromochloromethane	0.0054	< Stated Limit		06/13/00	AS
•	Bromodichloromethane	0.0054	< Stated Limit		06/13/00	AS
	Bromoform	0.0054	< Stated Limit		06/13/00	AS
	Bromomethane	0.0054	< Stated Limit		06/13/00	AS
	Carbon disulfide	0.0108	< Stated Limit		06/13/00	AS
	Carbon tetrachloride	0.0054	< Stated Limit		06/13/00	AS
	Chlorobenzene	0.0054	< Stated Limit		06/13/00	AS





**Enmarc** 229 E. Custer Street

Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

Project No.: 20.565

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B4 AF05365 6-8'	·.•	• #	
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
		Limit (dry wt.)				
	Chlorodibromomethane	0.0054	< Stated Limit		06/13/00	AS
	Chloroethane	0.0054	< Stated Limit		06/13/00	AS
	Chloroform	0.0054	< Stated Limit		06/13/00	AS
	Chloromethane	0.0054	< Stated Limit		06/13/00	AS
	cis-1,2-Dichloroethene	0.0054	0.023		06/13/00	AS
	cis-1,3-Dichloropropene	0.0054	< Stated Limit		06/13/00	AS
	Dibromomethane	0.0054	< Stated Limit		06/13/00	AS
	Dichlorodifluoromethane	0.0054	< Stated Limit		06/13/00	ÁS
	Ethylbenzene	0.0054	< Stated Limit		06/13/00	AS
	Hexachlorobutadiene	0.0054	< Stated Limit		06/13/00	AS
	Isopropylbenzene (Cumene)	0.0054	< Stated Limit		06/13/00	AS
	m,p,-Xylenes	0.0108	< Stated Limit		06/13/00	AS
	Methylene chloride	0.0054	0.006 B		06/13/00	AS
	Naphthalene	0.0054	< Stated Limit	•	06/13/00	AS
	n-Butylbenzene	0.0054	< Stated Limit		06/13/00	AS
	o-Xylene	0.0054	< Stated Limit		06/13/00	AS
	p-isopropyltoluene (Cymene)	0.0054	< Stated Limit		06/13/00	<b>A</b> \$
	Propylbenzene	0.0054	< Stated Limit		06/13/00	AS
	sec-Butylbenzene	0.0054	< Stated Limit		06/13/00	AS
	Styrene	0.0054	< Stated Limit		06/13/00	AS
	tert-Butylbenzene	0.0054	< Stated Limit		06/13/00	AS
	Tetrachloroethene	3.06	220.8 B	and the second	06/13/00	AS
	Toluene	0.0054	0.018		06/13/00	AS
	trans-1,2-Dichloroethene	0.0054	< Stated Limit		06/13/00	AS
	trans-1,3-Dichloropropene	0.0054	< Stated Limit		06/13/00	AS
	Trichloroethene	0.0054	0.496		06/13/00	AS
	Trichlorofluoromethane	0.0054	< Stated Limit		06/13/00	AS
	Vinyl chloride	0.0054	< Stated Limit		06/13/00	AS

B=Methylene chloride was found in the method blank at 0.0162 mg/kg and acetone was at 0.0179 mg/kg. Analytes reported on dry weight basis except for Moisture. AEA Laboratories, Inc.

14.8

0.1

Arminta P. Priddy **Laboratory Director** 

% Moisture

SM 2540 B.

MOR 000623

06/06/00

%

JM



**Enmarc** 229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B5 AF05366 4'		·	
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
SW-846 5035	Volatile Prep by 5035	-	06/02/00	-	06/02/00	JCZ
SW-846 8260B	Volatiles by 8260B	-	-	mg/kg	06/13/00	AS
	1,1,1,2-Tetrachloroethane	0.00355	< Stated Limit		06/13/00	AS
	1,1,1-Trichloroethane	0.00355	< Stated Limit		06/13/00	AS
	1,1,2,2-Tetrachloroethane	0.00355	< Stated Limit	• •	06/13/00	AS
	1,1,2-Trichloroethane	0.00355	< Stated Limit		06/13/00	ÁS
	1,1-Dichloro-1-propene	0.00355	< Stated Limit		06/13/00	AS
	1,1-Dichloroethane	0.00355	< Stated Limit		06/13/00	AS
	1,1-Dichloroethene	0.00355	< Stated Limit		06/13/00	AS
	1,2,3-Trichlorobenzene	0.00355	< Stated Limit		. 06/13/00	AS
	1,2,3-Trichloropropane	0.00355	< Stated Limit		06/13/00	AS
	1,2,4-Trichlorobenzene	0.00355	< Stated Limit		06/13/00	AS
	1,2,4-Trimethylbenzene	0.00355	< Stated Limit		06/13/00	AS
	1,2-Dibromo-3-chloropropane	0.00355	< Stated Limit		06/13/00	AS
	1,2-Dibromoethane	0.00355	< Stated Limit		06/13/00	AS
	1,2-Dichlorobenzene	0.00355	< Stated Limit		06/13/00	AS
	1,2-Dichloroethane	0.00355	< Stated Limit		06/13/00	AS
	1,2-Dichloropropane	0.00355	< Stated Limit		06/13/00	AS
	1,3,5-Trimethylbenzene	0.00355	< Stated Limit		06/13/00	AS
	1,3-Dichlorobenzene	0.00355	< Stated Limit	ς j	06/13/00	AS .
	1,3-Dichloropropane	0.00355	< Stated Limit		06/13/00	AS ·
	1,4-Dichlorobenzene	0.00355	< Stated Limit		06/13/00	AS
	2,2-Dichloropropane	0.00355	< Stated Limit		06/13/00	AS
	2-Butanone (MEK)	0.0071	< Stated Limit		06/13/00	AS
	2-Chlorotoluene	0.00355	< Stated Limit		06/13/00	AS
	2-Hexanone	0.0071	< Stated Limit		06/13/00	AS
	4-Chlorotoluene	0.00355	< Stated Limit		06/13/00	AS
	4-Methyl-2-Pentanone (MIBK)	0.0071	< Stated Limit		06/13/00	AS
	Acetone	0.0071	0.225 B		06/13/00	AS
	Benzene	0.00355	0.00602		06/13/00	AS
	Bromobenzene	0.00355	< Stated Limit		06/13/00	AS
	Bromochloromethane	0.00355	< Stated Limit		06/13/00	AS
•	Bromodichloromethane	0.00355	< Stated Limit		06/13/00	AS
	Bromoform	0.00355	< Stated Limit		06/13/00	AS
	Bromomethane	0.00355	< Stated Limit		06/13/00	AS
	Carbon disulfide	0.0071	< Stated Limit		06/13/00	AS
	Carbon tetrachloride	0.00355	< Stated Limit		06/13/00	AS
	Chlorobenzene	0.00355	< Stated Limit		06/13/00	AS



**Enmarc** 229 E. Custer Street

Lemont, Illinois 60439

Fax No.: (630) 257-1650 Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

Project No.: 20.565

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B5 AF05366 4'	. •		·
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
	-	Limit (dry wt.)			•	•
	Chlorodibromomethane	0.00355	< Stated Limit		06/13/00	AS
	Chloroethane	0.00355	< Stated Limit		06/13/00	AS
	Chloroform	0.00355	< Stated Limit		06/13/00	AS
	Chloromethane	0.00355	< Stated Limit		06/13/00	AS
	cis-1,2-Dichloroethene	0.00355	0.0646		06/13/00	AS
	cis-1,3-Dichloropropene	0.00355	< Stated Limit		06/13/00	AS
	Dibromomethane	0.00355	< Stated Limit	•	06/13/00	AS
	Dichlorodifluoromethane	0.00355	< Stated Limit		06/13/00	AS
	Ethylbenzene	0.00355	< Stated Limit		06/13/00	AS
	Hexachlorobutadiene	0.00355	< Stated Limit		06/13/00	AS
	Isopropylbenzene (Cumene)	0.00355	< Stated Limit		06/13/00	AS
	m,p,-Xylenes	0.0071	< Stated Limit		06/13/00	AS
	Methylene chloride	0.00355	< Stated Limit		06/13/00	AS
	Naphthalene	0.00355	< Stated Limit		06/13/00	AS
	n-Butylbenzene	0.00355	< Stated Limit		06/13/00	AS
	o-Xylene	0.00355	< Stated Limit		06/13/00	AS
	p-Isopropyltoluene (Cymene)	0.00355	< Stated Limit		06/13/00	AS
	Propylbenzene	0.00355	< Stated Limit		06/13/00	A\$
	sec-Butylbenzene	0.00355	< Stated Limit		06/13/00	AS
	Styrene	0.00355	< Stated Limit		06/13/00	AS
	tert-Butylbenzene	0.00355	< Stated Limit		06/13/00	AS
	Tetrachloroethene	0.0618	4.03		06/13/00	AS
	Toluene	0.00355	0.00922		06/13/00	AS
		_				

0.00470

0.250

12.0

< Stated Limit

< Stated Limit

< Stated Limit

B=Methylene chloride was found in the method blank at 0.0162 mg/kg and acetone was at 0.0179 mg/kg. Analytes reported on dry weight basis except for Moisture. AEA Laboratories, Inc.

0.00355

0.00355

0.00355

0.00355

0.00355

0.1

Arminta P. Priddy **Laboratory Director** 

SM 2540 B.

trans-1,2-Dichloroethene

Trichlorofluoromethane

Trichloroethene

Vinyl chloride

% Moisture

trans-1,3-Dichloropropene

MOR 000625

06/13/00

06/13/00

06/13/00

06/13/00

06/13/00

06/06/00

%



AS

AS

AS

AS

AS

JM



**Enmarc** 229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Project Name: Morey Bldg, Downers Grove, IL Date Reported: 06/14/00

#### **ANALYTICAL REPORT**

Field ID Lab Number Description			B6 AF05367 4'			
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
SW-846 5035	Volatile Prep by 5035	-	06/02/00	-	06/02/00	JCZ
SW-846 8260B	Volatiles by 8260B	-	-	mg/kg	06/13/00	AS
	1,1,1,2-Tetrachloroethane	0.00728	< Stated Limit		06/13/00	AS
	1,1,1-Trichloroethane	0.00728	< Stated Limit		06/13/00	AS .
	1,1,2,2-Tetrachloroethane	0.00728	< Stated Limit		06/13/00	AS
	1,1,2-Trichloroethane	0.00728	< Stated Limit		06/13/00	ÅS
	1,1-Dichloro-1-propene	0.00728	< Stated Limit		06/13/00	AS
	1,1-Dichloroethane	0.00728	< Stated Limit		06/13/00	AS
	1,1-Dichloroethene	0.00728	< Stated Limit		06/13/00	AS 🗽
	1,2,3-Trichlorobenzene	0.00728	< Stated Limit		06/13/00	AS.
	1,2,3-Trichloropropane	0.00728	< Stated Limit		06/13/00	AS
	1,2,4-Trichlorobenzene	0.00728	< Stated Limit		06/13/00	AS
	1,2,4-Trimethylbenzene	0.00728	< Stated Limit		06/13/00	AS
	1,2-Dibromo-3-chloropropane	0.00728	< Stated Limit		06/13/00	AS
	1,2-Dibromoethane	0.00728	< Stated Limit		06/13/00	AS
	1,2-Dichlorobenzene	0.00728	< Stated Limit		06/13/00	AS
	1,2-Dichloroethane	0.00728	< Stated Limit		06/13/00	AS
	1,2-Dichloropropane	0.00728	< Stated Limit		06/13/00	AS
	1,3,5-Trimethylbenzene	0.00728	< Stated Limit		06/13/00	AS
	1,3-Dichlorobenzene	0.00728	< Stated Limit		06/13/00	AS .
	1,3-Dichloropropane	0.00728	< Stated Limit		06/13/00	AS
	1,4-Dichlorobenzene	0.00728	< Stated Limit		06/13/00	AS
_	2,2-Dichloropropane	0.00728	< Stated Limit		06/13/00	AS
•	2-Butanone (MEK)	0.0146	0.0472		06/13/00	AS
	2-Chlorotoluene	0.00728	< Stated Limit		06/13/00	AS
	2-Hexanone	0.0146	< Stated Limit		06/13/00	AS
	4-Chlorotoluene	0.00728	< Stated Limit		06/13/00	AS
	4-Methyl-2-Pentanone (MIBK)	0.0146	< Stated Limit		06/13/00	AS
	Acetone	0.0146	0.236 B		06/13/00	AS
	Benzene	0.00728	0.00835		06/13/00	AS
	Bromobenzene	0.00728	< Stated Limit		06/13/00	AS
	Bromochloromethane	0.00728	< Stated Limit		06/13/00	AS
	Bromodichloromethane	0.00728	< Stated Limit		06/13/00	AS
-	Bromoform	0.00728	< Stated Limit		06/13/00	AS
	Bromomethane	0.00728	< Stated Limit		06/13/00	AS
	Carbon disulfide	0.0146	< Stated Limit		06/13/00	AS
	Carbon tetrachloride	0.00728	< Stated Limit		06/13/00	AS
	Chlorobenzene	0.00728	< Stated Limit		06/13/00	AS

MOR 000626



Enmarc

229 E. Custer Street Lemont, Illinois 60439

Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360

Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### ANALYTICAL REPORT

Field ID Lab Number Description			B6 AF05367 4'			
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
	•	Limit (dry wt.)	, ,		•	•
	Chlorodibromomethane	0.00728	< Stated Limit		06/13/00	AS
	Chloroethane	0.00728	< Stated Limit		06/13/00	AS
	Chloroform	0.00728	< Stated Limit		06/13/00	AS
	Chloromethane	0.00728	< Stated Limit		06/13/00	AS
	cis-1,2-Dichloroethene	0.00728	0.0388		06/13/00	AS
	cis-1,3-Dichloropropene	0.00728	< Stated Limit		06/13/00	AS
	Dibromomethane	0.00728	< Stated Limit		06/13/00	AS
	Dichlorodifluoromethane	0.00728	< Stated Limit		06/13/00	AS
	Ethylbenzene	0.00728	< Stated Limit		06/13/00	AS
	Hexachlorobutadiene	0.00728	< Stated Limit		06/13/00	AS
	Isopropylbenzene (Cumene)	0.00728	< Stated Limit		06/13/00	AS :
	m,p,-Xylenes	0.0146	< Stated Limit		06/13/00	AS
	Methylene chloride	0.00728	0.0124 B		06/13/00	AS
	Naphthalene	0.00728	< Stated Limit		06/13/00	AS
	n-Butylbenzene	0.00728	< Stated Limit		06/13/00	AS
	o-Xylene	0.00728	< Stated Limit		06/13/00	AS
	p-Isopropyltoluene (Cymene)	0.00728	< Stated Limit		06/13/00	AS
	Propylbenzene	0.00728	< Stated Limit		06/13/00	AS
	sec-Butylbenzene	0.00728	< Stated Limit		06/13/00	AS
	Styrene	0.00728	< Stated Limit		06/13/00	AS
	tert-Butylbenzene	0.00728	< Stated Limit		06/13/00	AS
	Tetrachloroethene	0.692	97.7		06/13/00	AS .
	Toluene	0.00728	0.0150		06/13/00	AS
	trans-1,2-Dichloroethene	0.00728	< Stated Limit		06/13/00	AS
	trans-1,3-Dichloropropene	0.00728	< Stated Limit		06/13/00	AS
•	Trichloroethene	0.00728	0.129		06/13/00	AS
	Trichlorofluoromethane	0.00728	< Stated Limit		06/13/00	AS
	Vinyl chloride	0.00728	< Stated Limit		06/13/00	AS
	7					

B=Methylene chloride was found in the method blank at 0.0162 mg/kg and acetone was at 0.0179 mg/kg. Analytes reported on dry weight basis except for Moisture. AEA Laboratories, Inc.

14.0

%

0.1

Arminta P. Priddy Laboratory Director

% Moisture

SM 2540 B.

MOR 000627

06/06/00

JM



**Enmarc** 229 E. Custer Street Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

**Project No.: 20.565** 

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### **ANALYTICAL REPORT**

Field ID Lab Number Description			B7 AF05368 4'			
Method	Analyte	Reporting Limit (dry wt.)	Result (dry wt.)	Unit	Analysis Date	Analyst
SW-846 5035	Volatile Prep by 5035	-	06/02/00	-	06/02/00	JCZ
SW-846 8260B	Volatiles by 8260B	-	-	mg/kg	06/13/00	AS
	1,1,1,2-Tetrachloroethane	0.00475	< Stated Limit		06/13/00	AS
	1,1,1-Trichloroethane	0.00475	< Stated Limit		06/13/00	AS
	1,1,2,2-Tetrachloroethane	0.00475	< Stated Limit		06/13/00	AS
	1,1,2-Trichloroethane	0.00475	< Stated Limit		06/13/00	ÁS.
	1,1-Dichloro-1-propene	0.00475	< Stated Limit		06/13/00	AS
	1,1-Dichloroethane	0.00475	< Stated Limit		06/13/00	AS
	1,1-Dichloroethene	0.00475	< Stated Limit		06/13/00	AS
	1,2,3-Trichlorobenzene	0.00475	< Stated Limit		06/13/00	AS
	1,2,3-Trichloropropane	0.00475	< Stated Limit		06/13/00	AS
	1,2,4-Trichlorobenzene	0.00475	< Stated Limit		06/13/00	AS
	1,2,4-Trimethylbenzene	0.00475	< Stated Limit		06/13/00	AS
	1,2-Dibromo-3-chloropropane	0.00475	< Stated Limit		. 06/13/00	AS
	1,2-Dibromoethane	0.00475	< Stated Limit		06/13/00	AS
	1,2-Dichlorobenzene	0.00475	< Stated Limit		06/13/00	AS
	1,2-Dichloroethane	0.00475	< Stated Limit		06/13/00	AS
	1,2-Dichloropropane	0.00475	< Stated Limit		06/13/00	AS
	1,3,5-Trimethylbenzene	0.00475	< Stated Limit		06/13/00	AS
	1,3-Dichlorobenzene	0.00475	< Stated Limit		06/13/00	AS
	1,3-Dichloropropane	0.00475	< Stated Limit		06/13/00	AS
	1,4-Dichlorobenzene	0.00475	< Stated Limit		06/13/00	AS
	2,2-Dichloropropane	0.00475	< Stated Limit		06/13/00	AS
	2-Butanone (MEK)	0.0095	< Stated Limit		06/13/00	AS
	2-Chlorotoluene	0.00475	< Stated Limit		06/13/00	AS
	2-Hexanone	0.0095	< Stated Limit		06/13/00	AS
	4-Chlorotoluene	0.00475	< Stated Limit		06/13/00	AS
	4-Methyl-2-Pentanone (MIBK)	0.0095	< Stated Limit		06/13/00	AS
	Acetone	0.0095	0.272 B		06/13/00	AS
	Benzene	0.00475	0.007		06/13/00	AS
	Bromobenzene	0.00475	< Stated Limit		06/13/00	AS
	Bromochloromethane	0.00475	< Stated Limit		06/13/00	AS
	Bromodichloromethane	0.00475	< Stated Limit		06/13/00	AS
	Bromoform	0.00475	< Stated Limit		06/13/00	AS
	Bromomethane	0.00475	< Stated Limit		06/13/00	AS
	Carbon disulfide	0.0095	< Stated Limit		06/13/00	AS
	Carbon tetrachloride	0.00475	< Stated Limit		06/13/00	AS
	Chlorobenzene	0.00475	< Stated Limit		06/13/00	AS

MOR 000628





**Enmarc** 229 E. Custer Street

Lemont, Illinois 60439 Fax No.: (630) 257-1650

Attn: J. Virgilio

First Lab Number: 005360 Sample Matrix: SOIL

Project Name: Morey Bldg, Downers Grove, IL

Project No.: 20.565

Sampled: 06/02/00 Received: 06/02/00

Date Reported: 06/14/00

#### **ANALYTICAL REPORT**

Field ID Lab Number Description	• •		B7 AF05368 4'			
Method	Analyte	Reporting	Result (dry wt.)	Unit	Analysis Date	Analyst
		Limit (dry wt.)				
	Chlorodibromomethane	0.00475	< Stated Limit		06/13/00	AS
	Chloroethane	0.00475	< Stated Limit		06/13/00	AS
	Chloroform	0.00475	< Stated Limit		06/13/00	AS
	Chloromethane	0.00475	< Stated Limit		06/13/00	AS
	cis-1,2-Dichloroethene	0.00475	< Stated Limit		06/13/00	AS
	cis-1,3-Dichloropropene	0.00475	< Stated Limit		06/13/00	AS
	Dibromomethane	0.00475	< Stated Limit		06/13/00	AS
•	Dichlorodifluoromethane	0.00475	< Stated Limit		06/13/00	AS
	Ethylbenzene	0.00475	< Stated Limit		06/13/00	AS
	Hexachlorobutadiene	0.00475	< Stated Limit		06/13/00	AS
	Isopropylbenzene (Cumene)	0.00475	< Stated Limit		06/13/00	AS
	m,p,-Xylenes	0.0095	< Stated Limit		06/13/00	AS
•	Methylene chloride	0.00475	< Stated Limit		06/13/00	AS
	Naphthalene	0.00475	< Stated Limit		06/13/00	AS
	n-Butylbenzene	0.00475	< Stated Limit		06/13/00	AS
	o-Xylene	0.00475	< Stated Limit		06/13/00	AS
	p-Isopropyltoluene (Cymene)	0.00475	< Stated Limit		06/13/00	AS
	Propylbenzene	0.00475	< Stated Limit		06/13/00	AS
	sec-Butylbenzene	0.00475	< Stated Limit		06/13/00	AS
	Styrene	0.00475	< Stated Limit		06/13/00	AS
	tert-Butylbenzene	0.00475	< Stated Limit		06/13/00	AS
	Tetrachloroethene	0.00475	0.147		06/13/00	AS
	Toluene	0.00475	0.010		06/13/00	AS
	trans-1,2-Dichloroethene	0.00475	< Stated Limit		06/13/00	AS
	trans-1,3-Dichloropropene	0.00475	< Stated Limit		06/13/00	AS
•	Trichloroethene	0.00475	< Stated Limit		06/13/00	AS
	Trichlorofluoromethane	0.00475	< Stated Limit		06/13/00	AS
	Vinyl chloride	0.00475	< Stated Limit		06/13/00	AS
SM 2540 B.	% Moisture	0.1	14.8	%	06/06/00	JM

B=Methylene chloride was found in the method blank at 0.0162 mg/kg and acetone was at 0.0179 mg/kg. Analytes reported on dry weight basis except for Moisture. AEA Laboratories, Inc.

Arminta P. Priddy **Laboratory Director** 

MOR 000629

#### MICHIGAN RECOVERY SYSTEMS, INC Land Disposal Restriction Notification Form

Gene	rator.	Morey	Corp	•	EPA ID #.	ILD025415266	Manifest # MI49	01173
ust th	ne wasti	e codes a	and chec	k the appropriate box for	the waste desc	cribed on each line of th	e manifest referenced a	above
aD0	02		(X)	Non-Wastewater () Wa	astewater c	()	Non-Wastewater () W	Vastewat
p <u>D0</u>	01	·	(X)	Non-Wastewater () Wa	astewater d	()	Non-Wastewater () W	Vastewat
				nibition levels exceeded l 40 'Treatment Standards			ne applicable hazardous	waste
	Check	Manifest	Line Iter	n #:		Wastewater	Non-Wastewater	
	t)	Present				mg/l or	mg/l or	
11a.	11b.	11c.	11d.	Constituents of Con	ncern CAS#	Technology Code	Technology Code	
l. Lis	sted Ha	zardous	Wastes	F001,F002,F003,F004, spent solvents:	F005-Solvents	wastes that contain any	of one or more of the l	ollowng
				Acetone	67-94-1	0.28	160	
				Benzene	71-43-2	0.14	10	
				n-Butyl alcohol	71-36-3	5.6	2.6	
				Carbon disulfide	75-15-0	3.8	NA NA	
				· -	56-23-5	0.057	6.0	
				Carbon tetrachloride		0.057	6.0	
				Chlorobenzene	108-90-7	0.037	5.6	
				o-Cresol	95-48-7			
				m-Cresol	108-39-4	0.77	5.6	
				p-cresol	106-44-5	0 77	5.6	
				Cresol-mixed isomers	1318-77-3	0.88	11.2	
				Cyclohexanone	108-94-1	0.36	NA 6.0	
				o-Dichlorobenzene	95-50-1	0.088	6.0	
				Ethyl acetate	141-07-6	0.34	33	
				Ethyl benzenc	100-41-4	0.057	10	
				Ethyl ether	60-29-7	0.12	160	
				Isobutyl alcohol	78-83-1	5.6	170	
		·		Methanol	67 <i>-</i> 56-1	5.6	NA	
				Methylene chloride	75-09-2	0.089	30	
				Methyl ethyl ketone	78-93-3	0.28	36	
				Methyl isobutyl ketone	108-10-1	0.14	33	
				Nitrobenzene	98-95-3	0.068	14	
				Pyridine	110-86-1	0.014	16	
				Tetrachloroethylene	127-18-4	0.056	6.0	
				Toluene	108-88-3	0.080	10	
				1,1,1-Trichloroethane	71-55-6	0.054	6.0	
•				1,1,2-Trichloroethane	79-00-5	0.054	6.0	
				1,1,2-Trichloro-1,2,2-				
				trifluoroethane	76-13-1	0.057	30	
				Trichloroethylene	79-01-6	0.054	6.0	
				Trichloromonofluoro-	73-01-0	0.00 \		
				methane	75-69-4	0.020	30	
					1330-20-7	0.32	30	
				Xylene-mixed isomers	1330-20-7	0.32	30	
				F003 and/or F005 solve following three solvents	ent wastes that o	contain any combination d F001-F005 solvents:	of one or more of the	
				Carbon disulfide	75-15-0	3.8	4.8 mg/LTCLP	õ
		· <del></del>		Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP	õ
				Methanol,	67-56-1	5.6	0.75 mg/I TCLP	8
								MOR 000630
				F005 solvent waste conf	taining 2-Nitropr	opane as the only listed	F001-5 solvent.	Ŗ Ö
				2-Nitropropane	79-46-9	WETOX or CHOXD  (b CARBN; or INCIN	INCIN	Š

F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5 solvent. 2-Ethoxyethanol 110-80-5 BIODG or INCIN INCIN 2-Ethoxyethanol

** If selecting this subcategory include the Underlying Hazardous Constituents form.

3. Hazardous Waste Characteristics (con't)
For non-wastewater waste streams that have any of the hazardous waste characteristics on this page checked, include the Inderlying Hazardous Constituents Form with this LDR form.

Chec		st Line I	tem#			Wastewater mg/l or		Nastewater ng/l or
		Present	11d.	Constituents of Concern	CAS #	Technology Code		ology Code
1a.	116.	11c.	Hu.	Constituents of Concern	CAO #	· comology code	1 00111	lology code
				D012-Endrin	72-20-8	BIODG or INCIN	0 13	& meet 268
				Endrin Aldehyde	7428-93-4	BIODG or INCIN	0.13	& meet 268
				D013-Lindane				
				alpha-BHC	319-84-6	CARBN or INCIN		& meet 268
				beta-BHC	319-65-7	CARBN or INCIN	0.066	& meet 268
				delta-BHC	319-68-8	CARBN or INCIN		& meet 268
				gamma-BHC (Lindane)	319-65-7	CARBN or INCIN	0.066	& meet 268
				D014-Methoxychlor	72-43-5	WETOX or INCIN	0.18	& meet 268.
				D015-Toxaphene	8001-35-2	BIODG or INCIN	2.6	& meet 268.
				D016-2,4-D	94-76-7	CHOXD, BIODR or	10.0	& meet 268.
				•		INCIN		
				D017-2,4,5-TP	93-72-1	CHOXD or INCIN	7.9	& meet 268
				D018-Benzene	71-43-2	0.14	10.0	& meet 268.
				D019-Carbon Tetrachloride	56-23-5	0.057	6.0	& meet 268
				D020-Chlordane	57-74-9	0.0033	0.26	& meet 268
				D021-Chlorobenzene	108-90-7	0.057	6.0	& meet 268
			<del></del>	D022-Chloroform	67-66-3	0.046	6.0	& meet 268
				D023-o-Cresol	95-48-7	0.11	5.8	& meet 268.
				D024-m-Cresol	108-39-4	0 77	5 6	& meet 268
				D025-p-Cresol	106-44-5	0 77	5.6	& meet 268
				D026-Total Cresol	1319-77-3	0 88	11.2	& meet 268.
				D027-p-Dichlorobenzene	106-46-7	0.090	6.0	& meet 268.
				D028-1,2-Dichloroethane	107-06-2	0.21	6.0	& meet 268
				D029-1,1-Dichloroethylene	75-35-4	0.025	6.0	& meet 268
				D030-2,4-Dinitrotoluene	121-14-2	0.32	140.0	& meet 268
				D031-Heptachlor	76-44-8	0.0012		& meet 268.
				Heptachlor epoxide	1024-57-3	0.016		& meet 268.
				D032-Hexachlorobenzene	118-74-1	0.055	10.0	& meet 268
—			<del></del>	D033-Hexachlorobutadiene	87-68-3	0.055		& mect 268
			<del></del>		67-72-1	0.055		& meel 268
—				D034-Hexachloroethane	78-93-3	0.28		& mect 268
•				D035-Methyl ethyl ketone	98-95-3	0.068		& meet 268.
				D036-Nitrobenzene		0.089		& meet 268.
_				D037-Pentachlorophenol	87-86-5			& meet 268.
_				D038-Pyridine	110-86-1	0.014		& meet 268.4
				D039-Tetrachloroethylene	127-18-4	0.056		
				D040-Trichloroethylene	79-01-6	0.054		& meel 268
_				D041-2,4,5-Trichlorophenol	95-95-4	0.018		& meet 268
_				D042-2,4,6-Trichlorophenol	88-06-2	0.035		& meet 268
				D043-Vinyl Chloride	75-01-4	0 27	8 0	& meet 268 4

I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment

Company Name	Morey Corp.			
Authorized Signature	Ki	h	Date.	4.7.98

#### MICHIGAN RECOVERY SYSTEMS, MIC Underlying Hazardous Constituents Form

			OVERY SYSTEMS, ITAC  dous Constituents Form	Longer 4 Cl. 4
Manifest Doc.#	01173	Line Item	MRSI Approval Numb	oci

Circle those regulated constituents which can reasonably be expected to be present, at the point of generation of the hazardous waste described above, at a concentration above the specified treatment standard

Phenol 1,2-Dibromo-3-Chloropropane Famphui Acenaphthylene Ethylene dibronade Fluoranthene **Phorate** Aceaphthene Phthalic acid Fluorene Dibromomethane Acetone Heptachlor Phthalic anhydride 2,4,-D Acetonitale Heptachlor epoxide Pronamide o-p'-DDD Acetophenone  $\rho$ , $\rho$ '-DOD Pyrene Hexachlorobenzene 2-Acetylaminofluorene **Pyndine** Acrolein o.p'-DDE Hexachlorobutadiene p.p'-DDE Hexachlorocyclopentadiene Safrole Acrylamide **HxCDDs** Silvex Acrylonilnie o.p'-DDT **HxCDFs** 2.4.5-T p.p'-DDT Aldnn 1,2,4,5-Tetrachlorobenzene Hexachloroethane 4-Aminobiphenyl Dibenz(a,h) anthracene **TCDDs** Hexachloropropylene Dibenz(a,e)pyrene Andine indeno(1,2,3-c,d) pyrene **TCDFs** Anthracene *m*-Dichlorobenzene lodomethane 1,1,1,2-Tetrachloroethane Aramite o-Dichlorobenzene Isobutyl alcohol 1,1,2,2-Tetrachloroethane alpha-BHC p-Dichlorobenzene Isodnn Tetrachloroethylene beta-BHC Dichlorodifluoromethane delta-BHC 1,1-Dichloroethane Isosaírole 2,3,4,6-Tetrachlorophenol gamma-BHC 1.2-Dichloroethane Kepone Toluene 1,1-Dichloroethylene Methacrylonitrile Toxaphene Benzene Bromoform trans-1,2-Dichloroethylene Methanol Benz(a)anthracene Methapyrilene 1.2.4-Trichlorobenzene 2,4-Dichlorophenol Benzal chloride 1.1.1-Trichloroethane Benzo(b)fluoranthene 2.6-Dichlorophenol Methoxychlor 1,2-Dichloropropane 3-Methylcholanthrene 1.1.2-Trichloroethane Benzo(k)fluoranthene Trichloroethylene cis-1,3-Dichloropropylene 4.4-Methylene bis-Benzo(g.h.i)perylene trans-1,3-Dichloropropylene Methylene chloride Trichloromonofluoromethane Benzo(a)pyrene Dieldrin Methyl ethyl ketone 2.4.5-Trichlorophenol Bromodichloromethane Methyl isobutyl ketone 2.4.6-Trichlorophenol Methyl bromide Diethyl phthalate 4-Bromophenyl phenyl ether 2.4-Dimethyl phenol Methyl methacrylate 1,2,3-Trichloropropane Methyl methansulfonate 1.1.2-Trichloro-1.2.2-trifluoroethai Dimethyl phthalate n-Butyl alcohol tris-(2,3-Dibromopropyl)phosphate Methyl parathion Butyl benzyl phthalate Di-n-butyl phthalate Naphthalene Vinyl chloride 2-sec-Butyl-4,6-dinitrophenol 1,4-Dinitrobenzene Xylenes-mixed isomers 2-Naphthylamine Carbon disulfide 4,6-Dinitro-o-cresol 2.4-Dinitrophenol o-Nitroaniline Antimony Carbon tetrachloride p-Nitroaniline Arsenic 2.4-Dinitrotoluene Chlordane Nitrobenzene Barium p-Chloroaniline 2,6-Dinitrotoluene Cadmium 5-Nitre-o-toluidine Chlorobenzene Di-n-octyl phthalate Chromium (total) p-Dimethylaminoazobenzene o-Nitrophenol Chlorobenzilate Cyanides (total) p-Nitrophenol 2-Chloro-1,3-butadiene Di-n-propylnitrosamine Cyanides (Amenable) N-Nitrosodiethylamide 1.4-Dioxane Chlorodibromomethane N-Nitrosodimethylamine Fluoride Chloroethane Diphenylamine **Diphenylnitrosamine** N-Nitrosodi-n-butylamine Lead bis(2-Chloroethoxy) methane N-Nitrosomethylethylamine Mercury 1.2-Diphenyl hydrazine bis(2-Chloroethyl) ether Nickel Disulfoton N-Nitromorpholine Chloroform bis(2-Chloroisopropyl) ether Endosulfan i N-Nitrosopiperidine Selenium N-Nitrosopyrrolidine Silver Endosulfan II n-Chloro-m-cresol Parathion Sulfide Endosulfan sulfate 2-Chloroethyl vinyl ether Thallium **Total PCBs** Endrin Chloromethane Vanadium 2-Chloronathalene Endnn aldehyde Pentachlorobenzene Ethyl acetate **PeCDDs** 2-Chlorophenol **PeCDFs** Ethyl cyanide 3. Chloropropylene Pentachloroethane Ethyl benzene Chrysene

Pentachloronitrobenzene

Pentachlorophenol

Phenacelin

Phenanthrene

Ethyl ether

bis(2-Ethylhexyl)phthalate

Ethyl methacrylate

Ethylene oxide

o-Cresol

n-Cresol

>-Cresol

Syclohexanone

MOR 000633

## Michigan Recovery Systems, Inc.



an Company

March 20, 1998

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SVCS.

Fax: (630) 365-3112

Approval Number:

032217D

Generator Name:

**MOREY CORP** 

Waste Common Name:

FLUX

Generator EPA ID #:

ILD025415266

Primary Waste Code: Secondary Waste Code(s): D001 NONE

**Generator Comments:** 

Approved Container: Approval Expires On: DRUM

03/19/99

MOR 000634

Rev. 9/97

#### ACTION MATERIALS CORPORATION

HON FERROLS FATERIALS 14483 East Perry Rd , DeKalb , Illinois 60115 Phone 815-286-3584 Date: 7-25-01 MOREY CORPORATION RECD: FROM: 100 MONEY DAINE ADDRESS: WOODNOOF DESCRIPTION PRICE GROSS TARE PCS. NET Signature



## LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

Michigan Disposal Waste
Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☐ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending &
Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

MOR 000636

Gen	nerator Name	c Morey Corp.		Genera	tor USEPA ID No. I	LD025415266
Gen	crator Addr	ess 2659 Wisconsi	in Av.	Downers Gro	ve, IL. 60515	
Stat	te Manifest N	10. MI 4901589		Manife	st Doc. No0158	39
				Instructions		÷.
•	In Column 1	l identify <u>all</u> USEPA hazardor	ıs waste co	des that apply to the	ais waste shipment.	
•	In Column 2	, choose the appropriate trea	tability gro	oup: Non-Wastewa	ter (NWW) or Wastew	ater (WW).
•	waste will be In Column 4 In Column 5	3, enter the appropriate Suboct treated using one of the alter I, circle the letter of the appros, for F001-F005, F039, D001-e Guide—LDR/UHC Constitute	native trea priate para D043, Debi	atment technologies agraph from Pages ris & Contaminates	s provided by 268.49(c 1-2 of this form. d Soil wastes, enter the	) (soil) or 268.45 (debris). : Reference Number(s) from the
	Manifest Line Item	I. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one)	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
	11.A	D001	NWW WW	High TOC	B C D E F G H I J K L M S	
	11.B		□ www □ ww		A B C D E F G H I J K L M S	
	11.C		D WWW		A B C D E F G H I J K L M S	
	11.D		□ www		A B C D E F G H I J K L M S	
knov Gene	reby certify to vledge and in erator Signal ted Name	F 11 V	on this an		Title	d accurate to the best of my

For S, circle the appropriate response for the 3 italicized options:

THIS CONTAMINATED SOIL DOES / DOES NOT CONTAIN LISTED HAZARDOUS WASTE AND DOES / DOES NOT EXHIBIT A
(CIRCLE ONE)

HOW MUST THE WASTE BE MANAGED?

CHARACTERISTIC OF HAZARDOUS WASTE AND IS SUBJECT TO / COMPLIES WITH THE SOIL TREATMENT STANDARDS (CIRCLE ONE)

AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without

impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, includin; the possibility of fine and imprisonment.

- 7A. THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD. This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Part 268 Subpart C, 268.32, Subpart D, 268.40 or RCRA Section 3004(d) prior to land disposal.
  - B. THIS HAZARDOUS DEBRIS IS SUBJECT TO THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45.
  - C. THIS RESTRICTED WASTE HAS BEEN TREATED TO THE PERFORMANCE STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and base this certification upon my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR part 268 Subpart D, and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d) without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. THIS RESTRICTED WASTE, FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY, HAS BEEN TREATED BY THE SPECIFIED TECHNOLOGY. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.42. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. THIS RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT TREATMENT. I certify under penalty of law that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- F. THIS RESTRICTED DEBRIS HAS BEEN TREATED IN ACCORDANCE WITH 40 CFR 268.45. I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for making false certification, including the possibility of a fine and imprisonment.
- G. THIS LAB PACK DOES NOT CONTAIN ANY WASTES IDENTIFIED AT APPENDIX IV TO PART 268. I certify under penalty of law that I personally have examined and am familiar with the waste and that the statement above is true and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification including possibility of fine or imprisonment.
- H. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOYE THE HAZARDOUS CHARACTERISTIC. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- I. THIS RESTRICTED WASTE HAS BEEN TREATED TO REMOVE THE HAZARDOUS CHARACTERISTIC AND BEEN TREATED FOR UNDERLYING HAZARDOUS CONSTITUENTS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic, and that underlying hazardous constituents, as defined in 268.48 Universal Treatment Standards. I am aware that there are significant penalties for submitting false certification, including the possibility of fine and imprisonment.
- J. THIS RESTRICTED WASTE IS SUBJECT TO AN EXEMPTION FROM LAND DISPOSAL. (Please include the date the waste is subject to the prohibitions in Column 5) This waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR Part 268.5, an exemption under 40 CFR 268.6, or a nationwide capacity variance under 40 CFR 269 Subpart C)
- K. THIS RESTRICTED WASTE WITH TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN THE WASTE PURSUANT TO 268.43. IF COMPLIANCE WITH THE TREATMENT STANDARDS IN SUBPART D OF THIS PART IS BASED IN PART OR IN WHOLE ON THE ANALYTICAL DETECTION LIMIT ALTERNATIVE IN 268.439(c). I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based on my inquiry of those individuals immediately responsible for obtaining information, I believe that the nonwastewater organic constituents have been treated by incineration in units operated in accordance with 40 CFR part 264, Subpart O, or 40 CFR part 265, Subpart O, or by combustion in fuel substitution units operating in accordance with the applicable technical requirements, and I have been unable to detect that nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penaltics for submitting a false certification, including the possibility of fine and imprisonment.
- L. THIS DECHARACTERIZED WASTE CONTAINS UNDERLYING HAZARDOUS CONSTITUENTS THAT REQUIRE FURTHER TREATMENT TO MEET UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.
- M. THIS WASTE HAS BEEN TREATED IN ACCORDANCE WITH THE REQUIREMENTS OF 40 CFR 268.40 TO REMOVE THE HAZARDOUS CHARACTERISTIC AND THE UNDERLYING HAZARDOUS CONSTITUENTS. AS DEFINED IN 268.2(1) HAVE BEEN TREATED ON-SITE TO MEET THE 268.48 UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that the above is true. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.



# M.S.D.S. BINDER

#### Morey Corporation Chemical Inventory by Product Name

Acti-Brite

Acid Cleaner

3880 Adhesive Elect. Cond.

Air Dry Enamel (Glyptal)

Air Lube

Alkyd Resin Solution - Glyptal

**Aluminum Alloys** 

Alloy Steel

Ammonium Hydroxide - (Liquid Mask)

Bow Electronics Solders - 5-09/01

BE Series Baking Epoxy Ink

**Bobbing Compound** 

**Brass** 

Bronze

BSC - 93 - PC

Carbon Steel

Castle Metals - variety

Cathydraulic Oil (Hydo) SAE 10W (rec. 10-09-01)

Catalyst 23 LV (Rec. 9/26/01)

Cleaner 320

Copper

Loctite ODC cleaner and degreaser - 20260

Chemask DA

Cho-Therm 1674 Solvent Based Silicone

Conductive Adhesive- Rec; 6-08-01

CSL 588 Electronic Grade Sealant/Adhesive

Cylesstic TK 460 Lubricating Oil

**DBE Solvent** 

Dow Corning High Vacuum Grease

Dow Corning (4) Electrical Insulating Compound

Dow Corning (R) 340 Heat Sink Compound

Dry Lube Aerosol Lubricant 2W757-BT.F.E.(rec.9-20-01)

E-341 FR Black Epoxy Resin

Eccobond A-401-37

Eccogel 1265 Clear, Part A

Eccogel 1265 Part B

Electro wash PX (Red. 10-08-01)

Eccostrip 93 Organic Solvent

Elastomeric Rubber Flange Sealant

**Epoxy Color Paste Black** 

Foille Plus Medicated First Aid Spray

Flange sealant 509 850 c

Flexible Anaerobic Gasket Flange Sealant

Flux Core Solder 245

Hi-Grade #3592 Flux

Gasoline (Lead Free)

**GE Silicones** 

Grainger Stock No.. 4ZF13-Rec 6-15-01

High Temperature Flange SLT Anaerobic 300ML

Humiseal Type 1A33

Humiseal Type Thinner 521

Hysol 7804 Polyamide Hot Melt Adhesive

Isopropyl Alcohol (Rec. 9-26-01)

Isopropanol, Anhydrous (Alcohol)

Kleenox "P" Solder Oxide Reducing Powder (rec10-15-01)

Koki JS - 3000 Flux

Liquid Silicone Rubber

Lite Tak (R) 375 Surface Curing UV Adhesive

Lite Tak (R) 3751 Adhesive

Loctite (R) 509 Gasket Eliminator Sealant

Loctite (R) 712 Accelerator Tak Pak (R)

Loctite 4471 instant adhesive prism

Loctite 5900 (R) Flange Sealant (Rec. 10/12/01)

Locquic Primer N

Locquic (R) Primer T 7471

Lonco SLS 65 Flux (Rec. 9-20-01)

Low Breakloose PST 250ML Tube Anaerobic

Lubriplate DS-ES Lubricating Grease

McLube 1775x Fluoropolymer/Organic Resin

McLube 2003 Fluoropolymer/Dispersion

Medical Device Adhesive Light Curing -UV Adhesive 3201

Mobil Vacuum Pump Oil

Mobil Vactra Oil N. 2 - Rec. 6-14-01

Mojave Brown Enamel 1E1950E

Multi-Cleaner #2 Glass & Surface Cleaner

Multi-Blend #5 Neutral Cleaner

Multi-Clean #7 Spray & Wipe Degreaser

Oatey Cleaner (Methyl Ethyl Ketone and Acetone)

Omegabond 101 Epoxy (Part A)

Orange Industrial Lube 390

Orange Turbine Oil 150 R&O

Paint (Caterpillar Yellow)

Panasert MP Grease - Rec. 6/04/01

PC-101 Protective Coating

Pc-101 Thinner

PD860002Sp, PD 860002SA and PD 860002S SMT Adhesive

PD944 Surface Mount Adhesive

Permabond epoxy adhesive

Petroleum Hydrocarbon (Kerosene)

Petroleum Solvent

Phenolphthalein Solution 0.1%

Phenolphthalein Indicator Solution 5g/1

Poly Prep Primer

Polyethylene Glycol Monolauryloxy (Nu-Kote)

Prism (R) 460

Removable Threadlocker 242

Loctite 271 - Threadlocker

Loctite 290 Threadlocker Wicking Grade 29005

Nickel

Restech Polyol 309

Restech Activator 142

Retaining Compound 620 High Temperature Anaerobic

RE 180 Screen Ink Thinner (9/28/00)

RE - 187 Thinner - Rec 6/18/01

RT-1 Epoxy Hardener

RTV 11 Silicone Rubber Compound

RTV 102 Silicone Rubber Compound

RTV 103 Silicone Rubber Sealant

RTV 108 Silicone Rubber Sealant

**RTV 133 Silicone Rubber Sealant** 

RTV 160 Silicone Rubber Sealant

RTV 162 Silicone Rubber Sealant

SAE-30 Lubricating Oil

Shineline Multi-Surface Cleaner

5900 Silicone - Recl 6/25/01

Silicone Elastomer

Silastic(R) RTV Silicone Rubber Base

Silastic(R) RTV Silicone Rubber Curing Agent

Slide Eporease Aerosol

Sodium Hydroxide 8.00

SS4-M951K Solder Paste

Solventless Actvt. 1 Lt Cn

Solder Paste 63Sn/37PG (Rec. 9-20-01)

Sn62 - Solder (Rec. 9/26/01)

Sn63 - Solder (Rec. 10-03-01)

Solvent Based Coating Material

Sparkle Glass Cleaner

Static - Free Hand Guard Lotion

Statguard Static Dissipative Floor Finish

Stycast 1265 Part A Clear (rec.9/26/01)

Stycast 1265 Part B (rec.9/26/01)

Stycast 2651 MM White

Stycast 2651MM Unpigmented (9/26/01)

Stycast 2754, Part B

Stycast 2850FT Black (Rec. 9/26/01)

SU 100 Silicone Sealant/Adhesive Remover

Super Bonder (R) 496 Instant Adhesive

Super Bonder (R) 495 General Purpose Inst. Adhesive

Superset Thermoset Series Screen Ink - Rec 6/18/01

Tak Pak (R) 7452 Accelerator

Tak Pak (R) 382 Instant Adhesive

Thermally Conductive Adhesive - rec. 6-11-01

Three in One Oil

Thinner 425(rec, 9/26/01)

Thinner X732-10M

Tribol 930 High Temperature Chain Oil - Rec. 6-14-01

Tribol 930 lubricant - rec. 6-04-01

Turmofluid 40 B Lub.

WD-40 (Aliphatic Petroleum Distillates)

Xylene cas 1330-20-7

Zep Z-Green

Zep Big Orange

MOR 000642

all Flux, Thinner, alcohol, Pc-101 and Di Basic fluida are picked up by

Environmental WASTE SERVICES, INC.

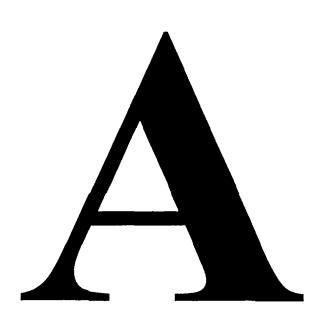
W 540 C Main Street Road

Elburn, Illinois 60119 FAX (630) 365-3112 om Vendar.

Solder Pross is picked up by action Materials in De Kalb area Bob Chandler - #815-286-3584

Top 10/29/01





MOR 000644

## NIRFACEMOUNT

#### MATERIAL SAFETY DATA SHEET

#### MSDS

Heraeus Inc. Cermalloy Division 24 Union Hill Industrial Park West Conshohocken, PA 19428

Office Telephone: (610)825-6050 Emergency Telephone: (800)255-3924

Date Prepared: 5/25/95 Date Revised: 6/27/96

Section 1: IDENTIFICATION

Product Name: PD944

CAS Registry Number: not applicable since product is a

mixture.

#### Section 2: COMPONENT HAZARD DATA (3)

Hazardous Components CAS No. Exposure Limits 35-45% 25068-38-6 not established epoxy thinner 10-20% 26761-45-5 not established hardener 25-35% 134091-76-2 not established 71566-54-6 pigment 1-3% not established 10mg/M3 ACGIH (1) silica, amorphous 5-15% 7631-86-9

NFPA rating: health 1, fire 1, reactivity 1

- TLV is very unlikely to be reached since material is in the paste form; hence no airborne particles. Provide adequate ventilation in the firing room to remove any evolved fumes.
- (2) Supplementary data on lead attached if applicable.
- Per 29 CFR 1910 the mixture has not been tested as a All hazardous components which comprise >=1% of the mixture (0.1% if carcinogenic) are listed. Percentages of individual components are not listed as this information is considered a Trade Secret; it is not required that it be disclosed.

#### Section 3: PHYSICAL DATA

Appearance and Odor: Physical State - thick paste

Color - red Odor -mild

Initial Boiling Point of Organic Mixture: (>400 OF)

Specific Gravity: 1

Vapor Pressure (Estimated for mixture,  $20^{\circ}$ C): N/AP Vapor Density (Air = 1): N/AP

Evaporation Rate

(Estimated for mixture, n-butyl acetate = 1,20°C): N/AP

Solubility in water: insoluble

page (1)

Section 4: FIRE, REACTIVITY, AND EXPLOSION HAZARD DATA Flash Point (Most flammable solvents): (>200 OF) Autoignition Temperature (Most Flammable Solvents):N/AV Flammable Limits in Air (Most Flammable Solvent):N/AV Extinguishing Media: Water Fog, Alcohol Foam, Dry Chemical Special Fire Fighting Procedures: Cool exposed containers with water. When fighting use NIOSH approved selfcontained breathing apparatus with full face piece operated in positive pressure mode, as evolved fumes are toxic and cause respiratory irritation. Unusual Fire and Explosion Hazards: Store at ambient temperature away from open flame or sparks. Stability: The material is stable under normal use conditions. Avoid temperatures > 40oC and moisture.

Incompatibility: Will not react with water. Avoid mixing with strong oxidizing agents, acids, and caustics.

Hazardous Decomposition Products: Combustion produces carbon monoxide, carbon dioxide, and various hydrocarbons.

Hazardous Polymerization: Will not occur. Section 5: Health Hazards of Components *

OSHA Permissible Exposure Limit: Not Established for Mixture

Components listed as carcinogenic by NTP, IARC, or OSHA: None

Primary Routes of Entry: inhalation, skin, eye, ingestion.

ROUTE AC EXPOSURE	UTE & CHRONIC SYSTEMS	MEDICAL CONDITIONS AGGRAVATED	EMERGENCY FIRST AID
Inhalation	Irritant	Unknown	Remove to fresh air. If breathing difficult give oxygen. If breathing has stopped, start artificial respiration.
Skin Contact	Irritant	Unknown	Remove contaminated clothing and launder before reuse. Wash thoroughly with soap and water.
Eye Contact	Moderate	Unknown	Flush with running water for 15 mins. lifting upper and lower lids.

page (2)

Ingestion

Irritation of the GI system

Unknown

Drink large quantities of water

Other health information:

epoxy: LD50 oral rat: >2000mg/kg

thinner: ingestion of large quantities (1% of diet) of this product produced body weight changes in experimental animals and in the liver and kidney. Levels of 0.5% and 1.0% wt in the diet also caused changes and reduced erythrocyte count and hematocrit. If ingested, do not induce vomiting. Drinke water and get medical

attention.

hardener: oral LD50 (rats) <3000 mg/Kg

dermal: LD50 (rabbits) >3000 mg/kg

- * If necessary, copies of toxicology studies provided to HICD by the manufacturers of the above hazardous components can be supplied. Synergistic or additive effects of the above chemicals are unknown, as are the effects of exposure to these chemicals in addition to others present in the workplace.
- ** In all cases keep individuals warm and quiet and get medical attention.

Section 6: PERSONAL PROTECTION AND CONTROLS

Personal Protection: Avoid prolonged skin contact.

Respiratory: Not required if local exhaust is satisfactory.

Ten (10) air changes per hour are recommended.

If overexposure occurs, use NIOSH-OSHA approved air supply respirator suitable for organic vapors. Administrative or engineering controls should be implemented to reduce exposure.

Eye: Chemical splash goggles or OSHA approved glasses. Skin: Solvent resistant glove (polyurathane, vinyl)

Engineering Controls: Recommended ventilation, provide sufficient mechanical (general or local exhaust) ventilation to maintain concentrations below TLV -10 air changes per hour

Hygienic Practices: Prevent eye contact with glasses or goggles, minimize skin contact, use with adequate ventilation to minimize inhalation of vapor. Do not smoke or eat in work areas. Wash hands thoroughly prior to smoking or eating.

Section 7: STORAGE, SPILL, AND DISPOSAL

Special storage conditions: Keep containers closed and sealed when not in use. Steps to be taken in case material is released or spilled:

Clean spill with disposable paper towels (wear rubber gloves) and wash area with soap and water.

Waste Disposal Method: Dispose in accordance with all local, state and federal regulations.

EPA Waste Class: Residual

page 3

Section 8: TRANSPORTATION

DOT ID No.: not regulated

DOT hazard class: not regulated

Proper shipping name: adhesive- not regulated

Section 9: REFERENCES

This MSDS is compilation of information supplied in the MSDS's obtained from the manufacturers of the chemicals present in this product. Also, 29 CFR.1210 was consulted for TLV information.

*** This information is for guidance, and is furnished without warranty of any kind. It is a compilation of data believed to be reliable, but Heraeus Incorporated, Cermalloy Division assumes no obligation or liability for its completeness or accuracy.

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#### MATERIAL SAF ETY DATA SHEET

Rec by 5/12/99

AS-3

(Prepared According To 29 CFR 1910.1200)

Effective Date -

#### **SECTION 1 - PROLUCT IDENTIFICATION**

Product Name: nller's Name: ier's Address:

LIME & SCALE REMOVER UNISOURCE WORLDWIDE, INC. POST OFFICE BOX 958

VALLEY FORGE, PA

Chemical Family: Proper Shipping Name:

ACID CLEANER CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, UN3264, PGII (CONTAINS PHOSPHORIC ACID)

**SECTION 2 - INGREDIENTS** 

CHEMICAL NAME

PHOSPHORIC ACID HYDROXYACETIC ACID OSHA/PEL ACGIH/TLV

CAS NO.

1 MG/M3

7664-38-2 79-14-1

SECTION 313 - SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372;

"CAS #" CHEMICAL NAME % BY WEIGHT
7664-38-2 PHOSPHORIC ACID 12
THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

#### **SECTION 3 - PHYSICAL DATA**

#### SECTION 4 - FIRE AND EXPLOSION DATA

Specific Gravity:

1.086

Solubility in Water: 100% SOLUBLE Physical Description:CLEAR LIQUID

**Boiling Point:** 

**CHARACTERISTIC ACID ODOR** 

> 212 F Vapor Pressure (mmHg): 22.0 Flash Point (Method Used):

Extinguishing Medi:: AS REQUIRED BY SURROUNDING FIRE

Special Fire Fightin's Procedures: WEAR SELF-CONTAINED FULL-FACE BREATHING APPARATUS

Unusual Fire and Explosion Hazards: COULD REACT WITH METALS TO GENERATE FLAMMABLE

HYDROGEN GAS.

#### **SECTION 5 - REACTIVITY DATA**

STARL F

Stability:

lions to Avoid: nerization:

EXTREME TEMPERATURES

WILL NOT OCCUR

NONE

Conditions to Avoid: Incompatability (Materials to Avoid): Hazardous Decomposition Products:

BASES, METALS, OXIDIZERS

H2, CO2, CO

#### SECTION 6 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage: STORE IN COOL, DRY PLACE, KEEP CONTAINER CLOSED

WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN

#### SECTION 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

SEVERITY OF INJURY DEPENDS LARGELY ON PRODUCT CONCENTRATION AND DURATION OF EXPOSURE, IMMEDIATE ACTION IS NECESSARY TO LIMIT SEVERITY OF INJURY, CAN CAUSE MINOR IRRITATION TO SEVERE BURNS AND TISSUE DAMAGE TO EXPOSED AREAS OF

BODY.

Other Precautions: CORROSIVE LIQUID, AVOID SKIN CONTACT.

Carcinogenicity: NTP: NO IARC: NO OSHA: NO

First Aid Procedures

REMOVE CONTAMINATED CLOTHING AND IMMEDIATELY WASH EXPOSED AREA WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF NECESSARY.

FLUSH EYES IMMEDIATELY WITH LARGE AMOUNT OF WATER FOR 15 MINUTES. LIFTING THE EYELIDS OCCASIONALLY, GET MEDICAL ATTENTION AT ONCE.

MOVE PERSON TO FRESH AIR, IF BREATHING STOPS, ADMINISTER ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.

GIVE LARGE QUANTITIES OF WATER THEN SEVERAL GLASSES OF MILK. DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION IMMEDIATELY.

#### SECTION 8 - PERSONAL FROTECTION INFORMATION

Respiratory Protection:

ONLY W/O ADEQUATE VENTILATION

Ventilation:

GENERAL EXHAUST

Protective Gloves:

RUBBER GLOVES

Eye Protection: SAFETY GOGGLES

MOR 000649

Other Protective Equipment:

AS REQUIRED TO LIMIT SKIN CONTACT, WASH HANDS THOROUGHLY AFTER USE.

#### SECTION 9 - SPILL OI LEAK PROCEDURES

) be Taken in Case Material is Released or Spilled: JIN LARGE SPILLS AND PUMP TO RECOVER, SMALL SPILLS CAN BE MOPPED UP AND RECOVERED. CONTAMINATED AREA SHOULD BE NEUTRALIZED.

Waste Disposal Mithods: DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL

REGULATIONS.

Infotrac Emergency Phone: 1-800-535-5053 CODE-AB

Disclaimer: Unisource Worldwide, Inc. and the manufacturer believe that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures are

Distributor: Unisource Worldwide, Inc. P.O. Box 958 Valley Forge, PA 1948 based on experience as of date of publication. They are not necessarily all inclusive nor f. by adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

#### **ACTI-BRITE**

#### Material Safety Data Sheet

SECTION I - COMPANY IDENTIFICATION

**PRODUCT: ACTI-BRITE** 

CAT. NO.:

AB-1, AB-5, AB-55

**MANUFACTURED BY:** 

Virginia KMP Corporation

4100 Platinum Way Dallas, Texas 75237 **TELEPHONE NUMBERS:** Office:

1-(214) 330-7731 Emergency Only: 1-(800) 424-9300

**SECTION II - HAZARDOUS INGREDIENTS** 

OSHA Hazardous Components (29 CFR 1910.1200)

**EXPOSURE LIMITS: 8 HR. TWA** 

**OSHA PEL** 

**ACGIH TLV** 

Phosphoric acid (CAS# 7664-38-2) Hydrofluoric acid (CAS# 7664-39-3) 1 mg/m³ 3 mg/m³ 1 mg/m³

STEL

STEL 3 mg/m3

3 ppm (F)

CL 3 ppm (F)

STEL 6 ppm (F)

**SECTION III - HAZARDS IDENTIFICATIONS** 

EMERGENCY OVERVIEW: DANGER! Corrosive to all body tissues. Avoid contact with skin or eyes. Harmful if inhaled or swallowed.

**POTENTIAL HEALTH EFFECTS:** 

INHALATION:

Inhalation of vapor or mist is corrosive to respiratory tract. Symptoms include coughing, wheezing, laryngitis, shortness of

breath, headache, nausea, and vomiting.

EYE CONTACT:

Liquid or vapors are corrosive to eyes. Immediate irritation followed by destruction of tissue.

SKIN CONTACT:

This material is corrosive to all body tissues. Full extent of damage may not be apparent for 12 - 24 hours after exposure.

Severe burns are slow healing. Gangrene may follow damage.

INGESTION:

Corrosive, moderately toxic, causes nausea, vomiting, loss of consciousness.

CHRONIC Effects: Damage to kidneys and liver (phosphoric acid). Changes in bones or joints (hydrofluoric acid).

NOTE:

CARCINOGENICITY: LISTED IN NTP? No

IARC? No

OSHA Regulated? No

**SECTION IV - FIRST AID MEASURES** 

INHALATION:

Remove victim to fresh air and, if needed, immediately begin artificial respiration. Give oxygen if breathing is labored. Get emergency medical help. Contact a physician immediately.

EYE CONTACT:

Flush eyes with water for 15 minutes. Get medical attention.

SKIN CONTACT:

Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek medical attention if symptoms develop and

INGESTION:

Do not induce vomiting. Rinse mouth out with water. Get immediate medical attention.

**SECTION V - FIRE FIGHTING MEASURES** 

FLASHPOINT (TEST METHOD):

None

LOWER: NA FLAMMABLE LIMITS:

UPPER: NA

**AUTOIGNITION TEMPERATURE: NA** 

**GENERAL HAZARD:** 

Toxic furnes produced in fire.

**FIRE FIGHTING INSTRUCTIONS:** 

Approach fire from upwind side. Avoid breathing smoke, fumes, mist, or vapors on the downwind side. Firefighters

wear protective clothing and self contained breathing apparatus.

**EXTINGUISHING MEDIA:** 

Dry powder, carbon dioxide (CO₂), water fog or spray.

**HAZARDOUS COMBUSTION PRODUCTS:** 

Smoke, irritating vapors, toxic furnes of POx, and corrosive F furnes, CO, CO2

**SECTION VI - ACCIDENTAL RELEASE MEASURES** 

LAND SPILL:

Emergency response coordinator must have mandated training. Eliminate all Ignition sources. SMALL SPILLS: Pick up with absorbent materials and place in non-leaking containers; seal tightly for proper disposal or reuse. LARGE SPILLS: Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels.

WATER SPILL: Notify proper authorities.

Clean up leaks/spills immediately to prevent soil or water contamination.

**SECTION VII - HANDLING AND STORAGE** 

HANDLING:

Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in section IV. Launder contaminated clothing before reuse.

STORAGE:

Store away from food stuffs, alkaline materials.

#### ACTI-BRITE

#### SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation recommended.

PERSONAL PROTECTION: If TLV is exceeded wear NIOSH approved respirator. Use heavy rubber type gloves, full face shield and boots, aprons, drench

showers, eye wash as needed for protection against spills and/or splashes.

#### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: ND SPECIFIC GRAVITY (H2O=1): 1.15

EVAPORATION RATE (BuAc=1): >1

VAPOR DENSITY (ALr=1): >1

VOC: 0%

**SOLUBILITY IN WATER: Complete** 

FREEZING POINT: NO

pH: <2.0

**BOILING POINT: 212 F** 

APPEARANCE & ODOR: Pink liquid, pungent odor.

#### **SECTION X - STABILITY AND REACTIVITY**

STABILITY: Stable.

CONDITIONS TO AVOID:

High temperatures.

MATERIALS TO AVOID:

Alkaline materials, may react with metals to produce hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: Corrosive F fumes, toxic POx fumes, from combustion - smoke, CO, CO2.

HAZARDOUS POLYMERIZATION: Will not occur.

#### SECTION XI - TOXICOLOGICAL INFORMATION

LDLo: Phosphoric Acid 220 mg/kg (unr - man) LD50: 1530 mg/kg (oral - rat) LD50: 2740 mg/kg (skin - rat) Hydrofluoric Acid LCLo: 50 ppm / 30 M (inh - human) LC50: 966 ppm / 1 hr (inh - rat)

100 mg/m³ TCLo: (inh - human) NOSE, EYE, PUL

#### **SECTION XII - ECOLOGICAL INFORMATION**

Harmful to aquatic life in very low concentrations.

Phosphoric Acid

138 ppm / 24 hr / mosquito fish / TLm / fresh water

Hydrofluoric Acid 60 ppm / fish / lethal / fresh water

#### **SECTION XIII - DISPOSAL CONSIDERATIONS**

Dispose as hazardous waste. Classification and documentation is required before disposal. Follow all local, state and federal regulations.

#### **SECTION XIV - TRANSPORTATION INFORMATION**

PROPER SHIPPING NAME: Corrosive liquid, Acidic, Inorganic, n.o.s. (contains phosphoric acid, hydrofluoric acid), 8, UN3264, PG II

**HAZARD CLASS: IDENTIFICATION NUMBER: UN3264** 59

DOT Emergency Guide #: Reportable Quantity (RQ):

65 gallons (hydrofluoric acid)

International:

Corrosive liquid, Acidic, Inorganic, n.o.s. (contains phosphoric acid, hydrofluoric acid), 8, UN3264, PG II, IMDG 8147-1

#### **SECTION XV - REGULATORY INFORMATION**

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): Reportable quantity is 65 gallons (hydrofluoric acid). Ccr

local authorities for other reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Threshold Planning Quantity is 65 gallons (hydrofluoric acid) Section 302

Section 313 Hydrogen Floride (CAS# 7664-39-9)

Phosphoric Acid

8 - 15% (CAS# 7664-38-2) 5 - 10%

**CALIFORNIA PROPOSITION 65:** Not listed

#### **SECTION XVI - OTHER INFORMATION**

State Right-to-Know Programs: MA, NJ, PA

NFPA Ratings

Health: Flammability:

0

Reactivity:

HMIS Protective Equipment: X See your supervisor MOR 000651

Prepared by: Virginia KMP Corporation

revised 9/27/96

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Virginia KMP. The data on this sheet related only to specific material designated here in. Virginia KMP assumes no legal responsibility for use or reliance upon these data.

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

3/08/01 23:56:11 571-5465 ISSUED FAX: (860)

Page 1 of

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

3880 Adhesive Electrically Conductive 30077

Item No.: Product Type: Conductive Adhesive

#### COMPOSITION, INFORMATION ON INGREDIENTS

Per: 84 /9/01

Ingredients	CAS No.	8
SILVER* Epoxy resin Epoxy resin Epoxy resin Amine hardener HARDENER Carbitol acetate	7440-22-4 Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary 112-15-2	50-70 10-30 10-30 1-5 1-5

* This component is listed as a SARA Section 313 Toxic Chemical.

The following numbers have been used to register components of this product as trade secrets for the State of New Jersey:

NJ 06-070-1067-5041P

NJ 06-070-1067-5042P NJ 06-070-1067-5090P NJ 06-070-1067-5091P NJ 06-070-1067-5092P

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients ACGIH OSHA OTHER (PEL) SILVER 0.1 mg/m 3 TWA0.01mg/m3 TWA None Exposure Limits (STEL) Ingredients (TLV) (PEL)

#### 3. HAZARDS IDENTIFICATION

May irritate eyes, skin, and gastrointestinal tract. Prolonged or repeated exposure may cause allergic skin reaction. Prolonged expoxure to silver may cause argyria which is a pigmentation of skin and other body tissue. Inhalation, ingestion, eyes, skin. Toxicity:

Primary Routes of Entry: Signs and Symptoms of Exposure:

Inhalation may produce allergic reactions in some individuals. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Eye contact may cause severe irritation, burning sensation, blurred vision. Skin contact may produce allergic reaction in some individuals.

Existing Conditions
Aggravated by Exposure:

None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP IARC OSHA
SILVER Epoxy resin Epoxy resin Epoxy resin Amine hardener HARDENER Carbitol acetate	ALG EYE IRR RES SKI ALG IRR ALG IRR No Data No Data No Data CNS IRR KID	NO         NO         NO           NO         NO         NO           NO         NO         NO           NO         NO         NO           NO         NO         NO           NO         NO         NO           NO         NO         NO

Abbreviations

ALG Allergen EYE Eyes KID Kidney SKI Skin

CNS Central nervous system IRR Irritant RES Respiratory

MOR 000652

#### 4. FIRST AID MEASURES

Ingestion: Inhalation:

Skin Contact:

Do not induce vomiting. Keep individual calm. Seek medical attention immediately. Remove to fresh air. If symptoms persist, obtain medical attention. Remove contaminated clothing, wash immediately

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100 المنتف بالرابط

FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Product Name: Item No.:

3880 Adhesive Electrically Conductive 30077

FIRST AID MEASURES

(continued)

:

Page 2 of

with soap and water. Wash contaminated clothoroughly before reuse. If irritation persobtain medical attention. Flush thoroughly with water. If irritation persists, obtain medical attention. Wash contaminated clothing se. If irritation persists,

Eye Contact:

FIRE FIGHTING MEASURES

Flash Point:

More than 200°F Method: Pensky-Martens Closed Cup

Carbon dioxide, foam, dry chemical

Use self-contained breathing supply.

Recommended
Extinguishing Agents: Carbon dioxide, foam, dry
Special Firefighting
Procedures: Use self-contained breath:
Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or
Explosion Hazards: None

Not available Not available

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Take up with an inert absorbent. Store in a closed container until disposal.

HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer Handling:

Store below 80°F. Refrigerated storage (-40°F) is recommended to extend shelf life Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes. Avoid prolonged inhalation of mists or vapors.

EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Ventilation:

Respiratory

Wear chemical splash goggles.
Wear solvent resistant gloves.
Provide sufficient local exhaust ventilation to maintain exposure below TLV(s).
If the TLV of the product is exceeded, a mechanical or self contained breathing appartus is advised.

See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor: Boiling Point:

Silver liquid\paste Faint epoxy More than 300°F Does not apply Not available 2.44

3.04 %; 74.26 grams/liter Not available Not available

Boiling Point:
pH:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Not available

STABILITY AND REACTIVITY

Stable Will not occur Strong oxidizers Not available

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal):

Amines, aldehydes

TOXICOLOGICAL INFORMATION

See Section 3.

ECOLOGICAL INFORMATION

No data available

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100 ISSUED 3/08/01 FAX: (860)

MATERIAL SAFETY DATA SHEET

Page 3 of 3

Product Name: Item No.:

3880 Adhesive Electrically Conductive 30077

#### 13. DISPOSAL CONSIDERATIONS

Recommended methods of

Do not landfill. Dispose of commercial material and empty containers through a licensed/permitted disposal contractor. disposal:

EPA Hazardous Waste Number

D011 / TCLP hazardous when disposed of per 40 CFR 261.24 (Silver).

#### 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or
Division:
Identification Number:
Marine Pollutant: Unrestricted Unrestricted

None

None IATA

Proper Shipping Name: Class or Division: UN or ID Number:

15. REGULATORY INFORMATION

Unrestricted Unrestricted

None

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive

harm. epichlorohydrin

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

2 Fire Hazard: Reactivity Hazard: Specific Hazard:

ō Does not apply

Estimated HMIS(R) Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazards:
Personal Protection:

See Section 8.

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn. NFPA is a registered HMIS is a registered

Prepared By: Title: Company: (24hr.) Phone: Revision Date:

2*

Gary Pierson
Health and Safety Specialist
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
January 27, 1999 Revision: 0005

## **ALIPHATIC DIBASIC ESTERS**

(SEE DIBASIC ESTER [DBE])

PREPARED BY DISTRIBUTOR:



A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131 Rec 3/8/01 ISSUE DATE

## **MATERIAL SAFETY DATA SHEET**

1986 and of 40CFR72).

November 25, 1985

REVISED

October 1, 1997

(This product contains one or more toxic chemicals subject to For Information or In An Emergency the reporting requirements of section 313 of the EMERGENCY Call: (847) 455-7111 PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of

S-2.19. 1	6 15 15 15 15 15 15 15 15 15 15 15 15 15	er e e e e e e e e e e e			
Manufacturer	<u>.,, ., </u>		<u> </u>		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
	Various				
Product Nam	e / Trade Name		Common N	arne / Grade	WW Oada
	Aluminum Alloys Aluminum Alloys Containing Lead			1XXX thru 7X Leaded 2011	
_	E PERMISSION S				
NOTE: Pr	roducts Under Normal Conditions Do Not Re Base Metal, Alloying Elements	<u>·</u>			<del> </del>
	And Metallic Coatings	CAS#	WT % (1) OS	HA PEL (mg/g²) (3)	ACGIH TLV TWA (Unless Noted Otherwise) (mg/m²) (2)
	Base Metal				
]	Aluminum (Al)	7429-90-5	80-99.7	15	10 (Total Dust)
	Alloying Elements				
	Copper (Co)	7440-50-8	<10	1	1 (Dust & Mist)
	Magnesium (Mg)	1309-48-4	<10	15	10 (As Magnesium Oxide Fume)
	Zinc (Zn)	1314-13-2	<10	5	5 (As Zinc Oxide Furne)
	Cobalt (Co)	7440-48-4	<2	0.1	0.02 (Dust & Fume)
	Iron (Fe)	7439-89-6	₹2	10	5 (As Iron Oxide)
	Manganese (Mn)	7439-96-5	<u>~</u>	5	0.2
	Silicon (Si)	7440-21-3	<2	15	10 (Total Dust)
	Tin (Sn)	7440-31-5	<2	2	2
	Chromium (Cr)	7440-47-3	<.5	0.5	.5
٠.	Nickel (Ni)	7440-02-0	<.5	1	0.5
	Leaded Alloys 2011 & 6262				
	Lead (Pb)	7439-92-1	<1	.05	0.05 (Dust & Fume)
(1) % Of A	Viloying Material Varies With Grade Of Mater	rial.		6 ACGIH Threshold 3 OSHA Permissabi	
27.79					A CONTRACTOR OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF TH
Material is (At	Normal Conditions)		Appearance	and Odor	······································
	Solid		ĺ	Silver-Metallic	, Odorless
Melting Point (	Base Metal)		Specific Gra	vity	
•	440 - 1220º F		į.	>2	
		4 24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Extinguishing	Dry Powder (Class D) or Sand				
Special Firefig	heing Procedures		·		
	Do not use water or halogen on	dust fires.			
Unusual Fire a	and Explosion Hazards				
	Damp aluminum dust may spont		iberation of hydro	ogen to form exp	olosive mixtures.
	Molten may explode on contact v	vith water.			
فأبيه فأحريها	C 新文字的印度图片 Silvery Light Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Common Comm				
Stability		<u> </u>	Incompetabil	ty (Materials to Avoid)	
	Stable			Anhydrous Br	omine. Also see NFPA #491M
Conditions to /	Avoid		•		
	See Special Precautions.	See Fire and Ex	plosion Section.		
Hazardous De	composition Products				MODagas
	See Special Precautions.	See Fire and Ex	plosion Section.		MOR 000656

PREPARED BY DISTRIBUTOR:



A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131 KOZ. XX 3/8/9

## MATERIAL SAFETY DATA SHEET

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986 and of 40CFR72). ISSUE DATE

November 25, 1985

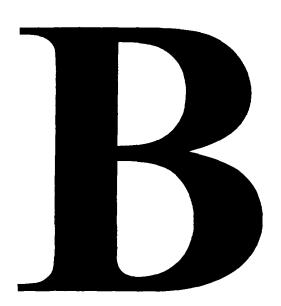
REVISED

October 1, 1997

For Information or In An Emergency Call: (847) 455-7111

Various					
Name / Trade Name	<del></del>	Comm	on Name / Grade		
Alloy Steel - HR & CR			Allov Steel i.e	e. 4130, 4140, 4340, 8620	
Alloy Leaded Steel		1	Alloy Leaded i.e. 86L20		
and the commentations					
: Products Under Normal Conditions Do Not	Represent An Inhalation,	Ingestion or Contac	t Health Hazard.	Actually services and the first of the services of the services of	
Base Metal, Alloying Elements And Metallic Coatings	CAS#	WT % (1)	OSHA PEL (mg/g*) (3)	ACGIH TLV TWA (Unless Noted Otherwise) (mg/	
Base Metal					
Iron (Fe)	7439-89-6	86-99	10	5 (As Iron Oxide)	
Alloying Elements					
Nickel (Ni)	7440-02-0	<5	1	0.5	
Chromium (Cr)	7440-47-3	<5	0.5	.5	
Silicon (Si)	7740-21-3	<5	15	I0 (Total Dust)	
Manganese (Mn)	7439-96-5	<2	5	0.2	
Carbon (C)	7440-44-0	·2	N.E.	3.5 (As Carbon Black)	
Molybdenum (Mo)	7439-98-7	<del>2</del>	15	10 (Insoluble Compound)	
Vanadium (V)	7440-62-2	< <u>2</u>	0.5	.05 (Respirable Dust)	
Aluminum (Al)	7429-90-5	<2	15	10 (Total Dust)	
Sulfur (S)	7704-34-9	<del>2</del>	13	5 (As SO,)	
33 (3)	1.01.01.0	~	10	U (100 UU ₂ )	
Phosphorus (P)	7723-14-0	<1	.1	.1 (Yellow)	
Bismuth (Bi)	7440-69-9	<1	N.E.	N.E.	
Copper (Cu)	7440-50-8	<1	1	1 (Dust & Mist)	
Leaded Alloy	· · · · <del> · ·</del>	- •	•	- \	
Lead (Pb)	7439-92-1	<1	.05	0.05	
Of Alloying Material Varies With Grade Of Ma	terial.		1996 ACGIH Threshold		
		(3)	1993 OSHA Permissabl	e Exposure Limit.	
Is (At Normal Conditions)	<u> </u>	Appear	ance and Odor	and the second control of the second control of the second control of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	
Solid		1 "	Gray-Black, C	Odorless	
Point (Base Metal)		Specifi	c Gravity		
>2500º F		Į.	Approximately	y 7	
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thing Media NA					
INA Firefighting Procedures	<del></del>				
Steel products in the solid stat	e present no fire or	explosion haza	rd.		
Fire and Explosion Hazards			<del></del>		
NA				MOR 000658	
SPECE ASSESSED TO					
Stable		Incomp	atability (Materials to Avoid) Reacts with s	trong acids to produce hydrogen gas.	
ns to Avoid			<del></del>	<u></u>	
NA				<u></u>	
us Decomposition Products					





MOR 000660



ergue, NM 87121-1962

Rec 80 7/22/99

Stoterrai Safety Data Sheet. Material/Trade Name:

Bobbing Compound

MSDS Code:

RIO-008

#### (800) 443-4764 SECTION I PRODUCT/SUPPLIER INFORMATION

Material/Trade Name:

**Bobbing Compound** 

Emergeacy Telephone Number: (809) 255-3924

Nonemergency Health &

Safety Information:

(505) 237-2463

Synonyms:

Mixture

DATE PREPARED:

01/26/96

Stock Number(s):

331-500

Based on Manfacturer's MSDS: 09/12/94

FLAMMABILITY: 0

HEALTH:

REACTIVITY: 0

#### SECTION II INGREDIENT/EXPOSURE LIMIT INFORMATION

Chemical Component	%	CAS No.	TLV	PEL	REL
Crystalline Quartz Silica	70-80	14808-60-7	0.1 mg/m³(RF)	10mg/m*(RD) %SiO2+2 30mg/m³ %SiO2+2(TP)	0.05 mg/m² (L.F.C.,hr)
Mixture of Fatty Acid & Petrol Wax	eun20-25	UNKNOWN	N.E.	N.E.	N.E.
Monazo Dyes Tuff	<1	UNKNOWN	N.E.	N.E.	N.E.

RF=Respirable Fraction, RD=Respirable Dust, hr=10hr TWA, L.F.C.=Lowest Peasible Concentration, TP=Total Particulate (Dust), N.E.=None Established (Exposure Limit)

#### SECTION III PHYSICAL PROPERTIES

Vapor Pressure (mm Hg):

Not Available Not Available

Vapor Density (Air = 1): Solubility in Water:

Negligible

Appearance:

Odor:

Yellow solid ber Mild fatty odor

Melting Point:

125°F (52°C)

Specific Gravity:

Boiling Point:

Evaporation Rate:

Volatility (%):

Not Available Not Available Not Available

pH:

Not Available

#### SECTION IV FIRE AND EXPLOSION DATA

Flash Point:

350°F (177°C) Not Available

Flammable Limits:

LEL: UEL: Unknown Unknown

Auto Ignition Temperature:

Special Fire Fighting Procedures: Fire fighters should wear full turnout gear and pressure-demand self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: None Known

EXTINGUISHING MEDIA: Carbon Dioxide, dry chemical, or foam

#### SECTION V REACTIVITY DATA

Stable? Yes

Conditions to Avoid: High temperatures

Incompatibility (Materials to Avoid): Strong oxidizers

Hazardous Decomposition Products: Oxides of carbon, nitrogen

Hazardous polymerization may occur? No

Conditions to Avoid: None Known

a member of

PORTEGIAL SAIGIS Data Sheef

Material/Trade Name:

**Bobbing Compound** 

MSDS Code:

RIO-008

#### 7500 Bluewater Rd. NW IL HM 87121-1962 (800) 443-4764

RICK RANDI

#### SECTION VI HEALTH HAZARD DATA

Primary Routes of Exposure: Inhalation, eye and skin contact

Acute signs and Symptoms of Overexposure: Material is not considered an inhalation hazard as supplied, but dust generated during buffing contains silica. Irritating to the eyes, skin and mucous membranes of the respiratory tract. Contact with molten material can cause severe burns.

Chronic Signs and Symptoms of Overexposure: Prolonged inhalation of silica dust may cause Silicosia, a fibrotic progressive lung disease characterized by loss of lung capacity. Symptoms characteristic of this condition include coughing, difficulty breathing, wheezing, and repeated non-specific chest illness.

Carcinogenicity? Yes

NTP

IARC

**ACGIH** 

OSHA

PROP65

Crystalline Quartz Silica

No

No

AHC

PC2A

C

AHC=Anticipated Human Carcinogen, PC2A=Probably Carcinogenic to Humans (Group 2A), C=Known in the state of California to be a Carcinogen

Conditions That May Increase Overexposure Potential: Any condition which creates a respirable dust. When using compound for buffing, proper ventilation should be used and appropriate protective equipment wom.

Medical Conditions Generally Aggravated by Exposure: Respiratory disease, damaged skin

#### FIRST AID PROCEDURES:

Eye Contact:

Flush contaminated eye(s) with plenty of water for at least 15 minutes while holding eyelids open. Seek

medical attention immediately if irritation persists or if injury has occurred.

Skin Contact:

Wash area with soap and water. Seek medical attention if irritation develops or persists.

Inhalation:

Remove victim to fresh air. If breathing has stopped, properly trained personnel should begin artificial

respiration or cardiopulmonary resuscitation (CPR) and medical assistance should be obtained

immediately.

Ingestion:

Seek medical attention immediately. DO NOT INDUCE VOMITTNO.

#### SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Actions to Take for Spills: Provide adequate ventilation. Avoid breathing dust by dampening material with water, scoop or sweep up and place in approved containers. Do not flush to sewers o water ways.

Waste Disposal: Dispose of viz a licensed firm in accordance with federal, state and local regulations (see EPA 40 CFR 261).

Precautions to be Taken in Handling and Storage: Store in a cool, dry, well ventilated area away from heat, and out of the sun, as product may melt. Observe all safeguards for container residue until cleaned or destroyed. Store in area where animals cannot get access to since pets, especially dogs, like to eat tallow based compounds.

Community Right-to-Know Requirements: None Known

#### SECTION VIII EMPLOYEE PROTECTION MEASURES

Local ventilation is preferred to meet TLV requirements. General ventilation is acceptable, if exposure is maintained below Ventilation: TLY.

Respiratory Protection: When airborne concentrations exceed TLV or are unknown, use a NIOSH/MSHA approved respirator for particulates in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

Eye Protection: Face shelld is recommended.

Protective Gloves: Cotton or leather gloves are recommended. Use heat resistant gloves when handling molten material. a member of

## THE BELL

18006483499 RIO GRANDE

056 P06/06 MAR 25 '98 16:31

Statorial Safety Data Sheet

Material/Trade Name:

**Bobbing Compound** 

MSDS Code:

RIO-008

7500 Showater Rd, NW Albaquerque, NN 87121-1962 (800) 443-6766

ROTRINDI

SECTION VIII EMPLOYEE PROTECTION MEASURES (continued)

Other Protective Equipment: Long sleeved shirt or coveralls

Work/Hygiene Practices: Eyewash station and safety shower should be available in areas of use. Wash thoroughly after handling

product.

The information herein is given in good faith, but no warranty, express or implied, is made.

a member of



Material Safety Data Sheet Material/Trade Name: Golden Glo Rouge

Stock Number: 331-071

Section VI Health Hazard Data

Primary Routes of Exposure:

None known

Acute Signs and Symptoms of Overexposure:

Chronic Signs and Symptoms of Overexposure:

None known

Carcinogenicity? No.

Listed in: Not listed

Medical Conditions Generally Aggravated by Exposure:

None known

**First-Aid Procedures** 

Hold eyelids open and flush eyes for 15 minutes with large quantities of water. Seek medical

attention immediately.

Skin: Wash area with soap and water. Remove contaminated clothing. Seek medical attention.

inhalation: Remove victim to fresh air. Restore breathing if necessary. Seek medical attention

immediately.

Ingestion:

Seek medical attention immediately.

Section VII Precautions for Safe Handling and Use

Actions to Take for Spills: Sweep up any material.

Waste Disposal: Dispose of in accordance with local, state and federal regulations.

Precautions to be Taken in Handling and Storage:

Store away from extreme heat.

Other Precautions: None known

Section VIII Employee Protection Measures

Ventilation:

Local ventilation is preferred to meet TLV requirements. General ventilation is

acceptable, if exposure is maintained below TLV.

Respiratory Protection: If irritation occurs appropriate respiratory protection should be worn.

Eye Protection: Safety goggles

Protective Gloves:

Rubber gloves

Other Protective Equipment: None known

· Work/Hygiene Practices: Eyewash station and safety shower should be available in areas of use.

Wash thoroughly after handling product.

The information herein is given in good faith, but no warranty, express or implied, is made.

### PREPARED BY DISTRIBUTOR:



A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131

# Fee # 3/8/01

### MATERIAL SAFETY DATA SHEET

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986 and of 40CFR72).

November 25, 1985
REVISED
October 1, 1997

For Information or In An Emergency Call: (847) 455-7111

facturer's Name Various				
ct Name / Trade Name		Common Na	ıme / Grade	
Brass			Half Hard, Soft, Free Cutting Le	Shim, HR Naval, Muntz aded
THE ROLL ME STONE STATE				
TE: Products Under Normal Conditions Do N	lot Represent An Inhalation,	Ingestion or Contact He	alth Hazard.	
Base Metal, Alloying Elements And Metallic Coatings	CAS#	WT % (1) OSH	HA PEL (mg/g*) (3) A(	CGIH TLV TWA (Unless Noted Otherwise) (mg/m
Base Metal				
Copper (Cu)	7440-50-8	60-70	1	1 (Dust & Mist)
				•
Alloying Elements	1017 10 0	20.42	•	E /A - Thur Co 11 Co 1
Zinc (Zn) Tin (Sn)	1314-13-2 7440-31-5	30-40 <1	5 2	5 (As Zinc Oxide Fume)
(a) (3-1)	1440-31-3	<1	2	2
Free Cutting Leaded Lead (Pb)	7439-92-1	<4	.05	0.05
6 Of Alloying Material Varies With Grade Of (	Material.		i ACGIH Threshold Llim	
	Material.		i ACGIH Threshold Lim OSHA Permissable E	
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al is (At Normal Conditions) Solid	Material.	(3) 1993	OSHA Permissable E and Odor Gold/Yellow Co	xposure Limit.
al is (At Normal Conditions) Solid	Matorial.	(3) 1993 Appearance	OSHA Permissable E and Odor Gold/Yellow Co	xposure Limit.
solid Point (Base Metal) >1600° F	Matorial.	(3) 1993 Appearance	and Oder Gold/Yellow Co	xposure Limit.
solid Point (Base Metal) >1600° F	Material.	(3) 1993 Appearance	and Oder Gold/Yellow Co	xposure Limit.
solid  Point (Base Metal)  >1600° F  Clarking Media  NA	Matorial.	(3) 1993 Appearance	and Oder Gold/Yellow Co	xposure Limit.
al Is (At Normal Conditions) Solid point (Base Metal) >1600° F		(3) 1993 Appearance Specific Gre	and Oder Gold/Yellow Co	xposure Limit.
Solid Point (Base Metal) >1600° F  Jehing Media NA Frefighting Procedures Steel products in the solid s	state present no fire or	Appearance Specific Gra explosion hazard.	and Oder Gold/Yellow Co	posure Limit.
Solid Point (Base Metal) >1600° F  Jehing Media NA Friefighting Procedures Steel products in the solid s	state present no fire or	Appearance Specific Gra explosion hazard.	ond Odor Gold/Yellow Conty > 8	xposure Limit.
al le (At Normal Conditions) Solid 3 Point (Base Metal) >1600° F  Ushing Media NA Il Firefighting Procedures Steel products in the solid s al Fire and Explosion Hazards Dust hazard exists under fat	state present no fire or	Appearance Specific Gra explosion hazard.  nall particle size. esult in an explosion	ond Odor Gold/Yellow Conty > 8	posure Limit.

Toxic gases, aerosols, and vapors may be released in a fire involving copper alloys if fumes of other compounds or other

contacting materials are involved.

		•
	Product	
	Brass	•
TE: STEEL PRODUCTS IN THE NATURAL STATE DO NOT PRESENT AN INHALATION, INGESTION OR CONT	ACT HAZARD. HOWEVER, OPERATIONS SUCH A	S

BURNING, WELDING, S	SAWING, BRAZING AND GRINDING M	ENT AN INHALATION, INGESTION OF IAY RELEASE FUMES AND/OR DUST:	S WHICH MAY PRESENT HEALT	ER, OPERATIONS SUCH AS ITH HAZARDS IF TLV'S ARE EXCEEDED
MAJOR EXPOSURE HAZARD		_		
<b>⊠</b> Inhalation	Pt Skin Contact	Skin Absorption	Eye Contact	Pt Ingestion
Effects of Overexposure				
freshly formed o dryness and irri	oxide fumes of copper, zinc a tation of the throat and influe	and lead may cause metal fur enzalike symptoms.	me fever characterized b	tion of high concentrations of by a metallic taste in the mouth,
abdominal cram	pestion of lead particles may ups, anemia, muscle weakne lamage and reproductive eff	result in lead-induced systen iss and headache. Prolonged ects.	nic toxicity. Symptoms of exposure can cause be	of lead poisoning include shavioral changes, kidney
Suspecied Cancer Agent?X	NO: This product's ingredients are	not found in the lists below. NTPIARC		
Emergency and First Aid Procedures				
if exposed to ex	cessive levels of metal fume	s, remove to fresh air, seek r	nedical aid immediately.	
Eyes - Flush wit	h water for at least 15 minut	es.		
oil or Leak Procedures		NAME OF THE PARTY OF		
NA				
Vaste Disposal Methods				
According to loc	al, state and federal regulation	ons		
AL COLUMN SPACES LOUIS		and the second of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a state of a st	t gran en de <mark>State</mark> nte. Se a la caractería de la caractería de la caractería de la caractería de la caractería de la caractería de la c	
NIOSH/MSHA - exposure exceed		spirator should be used to av	oid excessive inhalation	of particulates when
exposure exceed	ds TLV's.	when welding, burning, sawin	g, brazing, grinding or m	achining when
	· ·	as required by exposure. Ot	her protective equipmen	t should be utilized
THE REPORT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE		NA ANTONIO EST, MATORIO DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DE LA COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DE LA COMPANSIONE DEL COMPANSIONE DE LA COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSIONE DEL COMPANSI	galaria (m. 1900). 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In welding, preca	autions should be taken for a	tirborne contaminants which	may originate from comp	oonents of the welding rod.
Arc or spark gen	erated when welding or burn	ning could be a source of igni	tion for combustible and	flammable materials.
				MOR 000666
The information in this MSDS with mplied, regarding the accuracy		believe are reliable. However, the inf	formation is provided without ar	ny representation or warranty, express or

The conditions or methods of handling storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.

PREPARED BY DISTRIBUTOR:



A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131 Rec. 3/8/01 89 | ISSUE DATE

### MATERIAL SAFETY DATA SHEET

No

November 25, 1985

REVISED

October 1, 1997

For Information or In An Emergency
T of Call: (847) 455-7111

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986 and of 40CFR72).

	1986 and of 40CFR7	/2).		
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ense Konges Vallifeliae			24 2 18 2 4 18 18 18 18 18 18 18 18 18 18 18 18 18	
nufacturer's Name				
Various		<del></del>		
oduct Name / Trade Name		Common	Name / Grade	Aluminum Danna
Bronze			Silicon Bronze	ze, Leaded Bronze, Aluminum Bronze
A CONTROL OF THE WAR TO SEE THE SEE				
NOTE: Products Under Normal Conditions Do Not	Represent An Inhalation, Inc.			
Base Metal, Alloying Elements And Metallic Coatings	CAS#	WT % (1) C	JSHA PEL (mg/g*) (3)	) ACGIH TLV TWA (Unless Noted Otherwise) (mg/m³
Base Metal				
Copper (Cu)	7440-50-8	70-99	1	1 (Dust & Mist)
Alloying Elements	1770-00 0	10-55	•	i (Dust a mist)
Nickel (Ni)	7440-02-2	0-14	1	0.5
Aluminum (Al)	7429-90-5	0-14	15	10 (Total Dust)
Addition (A)	1423-30-5	U-14	10	IU (TOLAL DUST)
Iron (Fe)	7439-89-6	<5	10	5 (As Iron Oxide)
Silicon (Si)	7740-21-3	<4	10 15	10 (Total Dust)
Manganese (Mn)	7439-96-5	< <del>4</del> <4	15 5	0.2
Cobalt (Co)	7439-90-5 7440-48-4	<4 <2	5 0.1	
	7 <del>440-46-4</del> 7440-31-5			0.02 (Dust & Fume) 2
Tin (Sn)	/440-31-5 1314-13-2	<1 -1	2 5	_
Zinc (Zn)	1314-13-2	<1	5	5 (As Zinc Oxide Furne)
Leaded Alloys	7400.00.4	.4	25	8.85
Lead (Pb)	7439-92-1	<1	.05	0.05
I) % Of Alloying Material Varies With Grade Of Ma	saterial.		996 ACGIH Threshold 993 OSHA Permissabi	
	44 T. T. T. T. T. T. T. T. T. T. T. T. T.		993 CSPIA Permissabl	A EXPOSUIS LINK.
erial is (At Normal Conditions)	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	Appeara	nce and Odor	
Solid		1		etallic, Odorless
		Specific (		talle, cooless
ling Point (Base Metal)		Spoon.	•	
>1700º F			> 7	
Inguishing Media				
inguishing Media. NA				•
ecial Firefighting Procedures	<del></del>	<del></del>		
Products in the solid state pre	sent no fire or explosion	on hazard.		
usual Fire and Explosion Hazards				
Dust hazards exist under favo	•	•		MOR 000667
Dispersion in air and strong ig	inition source may resu	ult in an explosi		
<b>阿拉特在1000000000000000000000000000000000000</b>				
arbitry Ch. 1.1		Incompate	tability (Materials to Avoid)	•
Stable		l	Mercury, Ann	monia, Acetylene
onditions to Avoid	·			
Exposure during storage to st	trong acids, bases or o	xidizing agents	<b>š</b> .	
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Toxic gases, aerosols and vapors may be released in a fire involving copper alloys if fume of other compounds or other

Hazardous Decomposition Products

contacting materials are involved.

			Product	
			Bronz	:e
STREET STREET				
NOTE: STEEL PRODUCTS IN THE	E NATURAL STATE DO NOT PRES	SENT AN INHALATION, INGESTION O	R CONTACT HAZARD. HOWEVER,	OPERATIONS SUCH AS
BURNING, WELDING, SAV	VING, BRAZING AND GRINDING M	MAY RELEASE FUMES AND/OR DUST	S WHICH MAY PRESENT HEALTH	HAZARDS IF TLV'S ARE EXCEEDED
MAJOR EXPOSURE HAZARD		·		
<b>⊠</b> Inhalation	Pt Skin Contact	Skin Absorption	Eye Contact	Pt ingestion
Effects of Overexposure				
freshly formed oxi	ure to fumes/dust may prod ide fumes of copper and le oat and influenzalike symp	duce irritation of eyes and re ead may cause metal fume fo ntoms.	spiratory system. Inhalatio ever characterized by a met	n of high concentrations of tallic taste in the mouth,
abdominal cramps	stion of lead particles may s, anemia, muscle weakne mage and reproductive effo	result in lead-induced system iss and headache. Prolonge ects.	mic toxicity. Symptoms of lead exposure can cause behind	ead poisoning include avioral changes, kidney
high concentration	the 3rd Annual Report on C ns of dust and fumes can o er of nasal passages and		the National Toxicology Press, inflammation and/or ulcer	ogram (NTP). Exposure to ration of upper respiratory tract
Recent epidemiolo cancer.	ogical studies of workers m	nelting and working alloys co	intaining nickel/chromium h	nave found no increased risk of
	_NO: This product's ingredients are			
Emergency and First Aid Procedures				<del></del>
If exposed to exce	essive levels of metal fume	es, remove to fresh air, seek	medical aid immediately.	
Eyes - Flush with	water for at least 15 minute	es.		
	ক্রান্ত্রী স্থানিক প্রায়েশক। এই একটা সুসুসালে <b>কর্মনা</b> ই ।	गानका सुद्रास्त्र का वार्गा ने स्वताहरू के लोक समुद्राप्ता स्वताहरू	and the second of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Programme of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont
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NA				
Waste Disposal Methods			<u> </u>	
According to local	, state and federal regulation	ons		
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NIOSH/MSHA - A exposure exceeds	pproved dust and fume, re ; TLV's.	spirator should be used to a	void excessive inhalation of	f particulates when
Local exhaust ven exposure exceeds		when welding, burning, sawii	ng, brazing, grinding or mad	chining when
	goggles should be utilized welding standards.	as required by exposure. C	ther protective equipment :	should be utilized
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In welding, precau	itions should be taken for a	airborne contaminants which	may originate from compo	nents of the welding rod.
Arc or spark gener	rated when welding or burr	ning could be a source of igr	nition for combustible and fl	ammable materials.
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			N	MOR 000668

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness.

The conditions or methods of handling storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.

### . - Hot Applicable

### MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910, 1200)

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: BSC-93-PC

Chemical Family:

Colloids

NPCA Hazardous Materials

Sug

N/A

Rating Identification System

's Name: OFNA EBVIRONMENTAL

Formula:

Trade Secret

4 = Extreme

**PRODUCTS** 

Phone Number: 714-631-3707

3 - High

leath Flammability

Supplier's Address:

CHEMICAL NAME:

729 W. 16TH ST STE A-3, COSTA MESA, CA 92627

1 - Slight 0 = Insignificant

2 - Moderate

**Neactivity** Special Protection

ō

Effective Date: 2/01/91

**SECTION 2 - INGREDIENTS** 

CAS NO.

PEL W1.% N/A. TWA-TLV

N/A

STEL-TLV

SECTION 3 - PHYSICAL DATA

N/A

CANCINOGEN

Contains no hazardous components

Under Current OSHA delinitions.

Compiles with OSIA's 29 CRF 1910, 1200 "Trade Secrets"

SECTION 3 - PHYSICAL DATA

Polling Range: 212*

Specific Gravity: 1.02

Vapor Pressure: Same as water - Vapor Density: - Same as Water Solubility in Water: Complete -

Upper Explosive Limit:

None Mona

N/A

9.0 to 9.5 Evaporation Bale: 1.0

Melting Point: N/A

Extinguishing Media: Special Fire Fighting Procedures: Non-Combustible Elquid

Slightly viscous amber color solution,

Unusual Fire & Explosion Hazards:

Flash Point (Method Used):

None None

Physical Description: light citrus odor.-

**SECTION 5 - REACTIVITY DATA** 

SECTION 6 - STORAGE & HANDLING INFORMATION

Precautions to be Taken in Handling and Storage:

Stability: Stable

Hazardous Polymerization: Will not occur

incompatibility (Materials to Avoid): Strong exidizers, acids,

heal over 250°

Haza Jous Decomposition Products: None Known

Store tightly closed container in a dry area at temperatures between 40 - 120°F. Keep product out of eyes. Keep out of the reach of children. Clothing or shoes which become saturated with substance should not be reworn until thoroughly cleaned. Local, state, federal laws apply.

SECTION 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure: There are no known effects from over-

exposure to this product. However, practice of good industrial

tryglane exposure to any chemical should be kept to a minimum. Carcinogenicity: N/A

NTP: N/A

IARC Monographs: N/A

OSHA Regulated: N/A

Home of the ingredients are listed as carcinogens by IARC, NTP.

**OSHA** 

OI,

Medical Conditions: None

Generally Aggravated by Exposure: None Known

First Ald Procedures: .

Skin:

Flush with water. Seek medical attention if

Irrhation persists.

Eyes:

Flush with large quantities of water, occasionally Illing upper and lower lids. Seek medical attention

I irlialion persists.

Inhalation:

N/A

MOR 000669

Ingestion:

Drink plenty of water. Seek medical attention

Miritation persists.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements.

Protective Gloves: Recommended, but not necessary.

Ventilation: Standard, if vapors are detected, ventilate work area

by opening windows and using exhaust fans

Eye Protection: No Special Measures Required.

SECTION 9 - SPILL OR LEAK PROCEDURES

|d|

Stops to be Taken in Case Material is Released or Spilled: Absorb spill with inert absorbent material. Pick up and place residue in a suitable . whate container, or, if permitted, flush into sewer. Thoroughly rinse spill arna with water.

rotective Equipment: No special measures are required.

Waste Disposal Method: Liquid wastes are not permitted in landfills. This product is not considered a hazardous waste under RCRA. Unusable liquid may be drummed and taken to a chamical or industrial landilit or rinse into sewers. Local, state and federal faws apply

### SECTION 1 - PRODUCT IDENTIFICATION

duct Name:

BSC-93-DG

NPCA Hazardous Materials

Chemical Family: Colloids

Rating Identification System

**₽**qc lamo:

STE. A-3

4 = Extremo

OFNA EVIRONMENTAL PRODUCTS GROUP

Formula: Trade Secret

3 - High

opliers Address:

729 W. 16TH ST

2 = Moderate

Emergency Telephone:

1 . Slight 100 = Insignificant

Health **Flammability** Reactivity SpecialProtection

COATA MESA, CA 92627

SECTION 2 - INGREDIENTS

EMICAL NAME:

CAS NO.

TWA-TLV PEL

STEL·TLV

CARCINOGEN

stains no hazardous components

WT.% N/A N/A

N/A

Phone Number: 714-631-3707

N/A

N/A

der Current OSHA definitions.

nolies with OSHA's 29 CRF 1910, 1200 "Trade Secrets"

### **SECTION 3 - PHYSICAL DATA**

SECTION 3 - PHYSICAL DAJA Specific Gravity: 1.02

ing Range: 212°F ic: Prossuro: Samo as Water

Vupor Density: Same as Water

Flash Point (Mothod Used): None Upper Explosive Limit:

None

8.5

Solubility in Water: Complete

Extinguishing Media:

Non Combustible Liquid

poration Rate: 1.0

pility: Stable

Molling Point: N/A

Special Fire Fighting Procedures: Unusual Fire & Explosion Hazards:

None None

sical Description: Slightly Viscous

### **SECTION 5 - REACTIVITY DATA**

Hazardous Polymerization: Will not occur

mpatibility (Materials to Avoid): Strong oxidizers, acids,

heat over 250°

3100 ecomposition Products: Carbon Dioxide, Carbon

Momooxide, Oxides of Nilregen

### SECTION 6 - STORAGE & HANDLING INFORMATION

Precautions to be Taken in Handling and Storage:

Store lightly closed container in a dry area at temperatures between 40 - 120°F. Keep product out of eyes. Keep out of the reach of children. Clothing or shoes which become saturated with substance should not be reworn until thoroughly cleaned. Local, state, lederal laws apply.

### SECTION 7 - HEALTH HAZARDS AND FIRST AID

als of Overexposure: There are no known effects from overexpoto this product. However, practice good industrial hygiene. ssure to any chemical should be kept to a minimum.

inogenicity: N/A : Monographs: N/A

NTP: N/A

OSHA Regulated: N/A

of the ingredients are listed as carcinogens by IARC, NTP,

cal Conditions Generally Aggravated by Exposure: None Known

Skin:

Flush with water. Seek medical attention if

Initation persists.

Eyos:

First Aid Procedures:

Flush with large quantities of water, occasionally litting upper and lower lids. Seek medical attention

Il initation persists.

Inhalation:

Ingestion:

Drink planty of water. Seek medical attention if

initation persists.

### SECTION 8 - SPECIAL PROTECTION INFORMATION

iratory Protection: No special regultements.

Ventilation: Standard. If yapors are detected, ventilate work area by opening windows and using exhaust lans.

clive Gloves: Recommended, but not necessary.

Eye Protection: No special measures required.

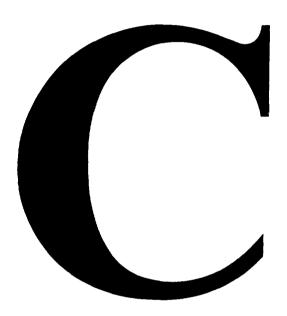
### SECTION 9 - SPILL OR LEAK PROCEDURES

to be Taken in Case Material is Released or Spilled: Absorb spill ren absorbent material. Pick-up and place residue in a suitable r or, il permitted, flush into sewer. Thoroughly rinse roa with water.

Protective Equipment: No special measures are required.

Waste Disposal Method: Liquid wastes are not permitted in tandfills. This product is not considered a hazardous waste under RCRA. Unusable liquid may be drummed and taken to a chemical or industrial landlill or finsed into sewers. Local, state, and lederal laws apply.





MOR 000671

### PREPARED BY DISTRIBUTOR:



A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131

### Rec. 3/8/01 SAP MATERIAL SAFETY DATA SHEET

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986 and of 40CFR72). ISSUE DATE

November 25, 1985

REVISED

October 1, 1997

For Information or In An Emergency Call: (847) 455-7111

				A second of the second of the second
urer's Name				
Various			····	
lame / Trade Name		Common N		oon Steel i.e. A36, 1018, 1010, 1040
Carbon Steel - HR & CR				ssure Vessel Quality
Leaded Carbon		İ	Lead	ded Carbon i.e. 10L42
Products Under Normal Conditions Do Not	Represent An Inhalation, Ing	gestion or Contact He	ealth Hazard.	
Base Metal, Alloying Elements And Metallic Coatings	CAS#	WT % (1) OS	SHA PEL (mg/g³) (3)	ACGIH TLV TWA (Unless Noted Otherwise) (mg
Base Metal				
Iron (Fe)	7439-89-6	97-99	10	5 (As Iron Oxide)
Alloying Elements				•
Manganese (Mn)	7439-96-5	<2	5	0.2
Carbon (C)	7 <del>440-44</del> -0	<2	N.E.	3.5 (As Carbon Black)
<u>.</u>	<b></b>			·
Aluminum (Al)	7429-90-5	<1	15	I0 (Total Dust)
Phosphorus (P)	7723-14-0	<1	.1	.1 (Yellow)
Sulfur (S)	7704-34-9	<1	13	5 (As SO ₂ )
Silicon (Si)	7740-21-3	<1	15	10 (Total Dust)
Vanadium (V)	7440-62-2	<1	0.5	.05 (As Vanadium Pentoxide Respirable Dust)
Colombian (Cb)	7440-03-1	<1	N.E.	N.E.
Bismuth (Bi)	7440-69-9	<1	N.E.	N.E.
Lead Carbon i.e. 10L42		~ ·		* 10 000
Lead (Pb)	7439-92-1	<1	.05	0.00
Leau (FD)	7403-52-1	ζ,	.05	0.05
N Alloying Material Varies With Grade Of M.		(2) 199	.US 96 ACGIH Threshold 93 OSHA Permissabi	Limit Value.
		(2) 199	96 ACGIH Threshold	Limit Value.
of Alloying Material Varies With Grade Of M		(2) 199 (3) 199	96 ACGIH Threshold	Limit Value.
N Alloying Material Varies With Grade Of M		(2) 199 (3) 199	96 ACGIH Threshold 93 OSHA Permissabl	Limit Value. e Exposure Limit.
of Alloying Material Varies With Grade Of Ma		(2) 199 (3) 199	96 ACGIH Threshold 93 OSHA Permissabl • and Odor Gray-Black, C	Limit Value. e Exposure Limit.
of Alloying Material Varies With Grade Of M. (At Normal Conditions) Solid		(2) 199 (3) 199 Appearance	96 ACGIH Threshold 93 OSHA Permissabl • and Odor Gray-Black, C	Limit Value. e Exposure Limit. Odorless
Of Alloying Material Varies With Grade Of Ma (At Normal Conditions) Solid and (Base Metal) >2500° F		(2) 199 (3) 199 Appearance	96 ACGIH Threshold 93 OSHA Permissabl e and Odor Gray-Black, C	Limit Value. e Exposure Limit. Odorless
Of Alloying Material Varies With Grade Of Ma (At Normal Conditions) Solid int (Base Metal) >2500° F		(2) 199 (3) 199 Appearance	96 ACGIH Threshold 93 OSHA Permissabl e and Odor Gray-Black, C	Limit Value. e Exposure Limit. Odorless
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Of Alloying Material Varies With Grade Of M.  (At Normal Conditions) Solid  Int (Base Metal) >2500° F  Ing Media NA	aterial.	(2) 199 (3) 199 Appearance Specific Gr	96 ACGIH Threshold 93 OSHA Permissabl e and Odor Gray-Black, C	Limit Value. e Exposure Limit. Odorless
Of Alloying Material Varies With Grade Of Material Conditions) Solid Int (Base Metal) >2500° F Ing Media NA elighting Procedures Steel products in the solid sta	aterial.	(2) 199 (3) 199 Appearance Specific Gr	96 ACGIH Threshold 93 OSHA Permissabl e and Odor Gray-Black, C	Limit Value. e Exposure Limit. Odorless
Alloying Material Varies With Grade Of Material Conditions) Solid  Int (Base Metal) >2500° F  Ing Media NA elighting Procedures Steel products in the solid static and Explosion Hazards NA	aterial.	(2) 199 (3) 199 Appearance Specific Gr	96 ACGIH Threshold 93 OSHA Permissabl e and Odor Gray-Black, C	Limit Value. le Exposure Limit. Odoriess
Alloying Material Varies With Grade Of M.  (At Normal Conditions) Solid  Int (Base Metal) >2500° F  Ing Media NA elighting Procedures Steel products in the solid sta	aterial.	(2) 199 (3) 199 Appearance Specific Gr	e and Odor Gray-Black, C  avity  Approximatel  dity (Materials to Avoid)	Limit Value. le Exposure Limit.  Odorless  y 7  MOR 000672
(At Normal Conditions) Solid int (Base Metal) >2500° F ing Media NA edighting Procedures Steel products in the solid sta	aterial.	(2) 199 (3) 199 Appearance Specific Gr	e and Odor Gray-Black, C  avity  Approximatel  dity (Materials to Avoid)	Limit Value. le Exposure Limit.  Odorless  y 7  MOR 000672
Alloying Material Varies With Grade Of M.  (At Normal Conditions) Solid  Int (Base Metal) >2500° F  Ing Media NA elighting Procedures Steel products in the solid sta	aterial.	(2) 199 (3) 199 Appearance Specific Gr	e and Odor Gray-Black, C  avity  Approximatel  dity (Materials to Avoid)	Limit Value. le Exposure Limit.  Odorless  y 7  MOR 000672

Metallic dust or fumes may be produced during welding, burning, grinding and possibly machining.

Refer to ANSI Z49.1

Product	
Carbon	•
<b></b>	

SANCES A SOUTH STATE			<b>经工程的企业工程的</b>	<b>新疆,1985年,1985年,1985年</b>
BURNING, WELDING, SA	HE NATURAL STATE DO NOT PRES AWING, BRAZING AND GRINDING N	SENT AN INHALATION, INGESTION OF MAY RELEASE FUMES AND/OR DUSTS	CONTACT HAZARD. HOWEVES WHICH MAY PRESENT HEALT	ER, OPERATIONS SUCH AS TH HAZARDS IF TLV'S ARE EXCEEDED
MAJOR EXPOSURE HAZARD	<u> </u>	<del></del>		
⊠Inhalation	Pt Skin Contact	Skin Absorption	Eye Contact	Pt Ingestion
Effects of Overexposure				
freshly formed of	sure to fumes/dust may prod xide fumes of iron, mangand tion of the throat and influent	duce irritation of eyes and res ese and lead may cause meta za-like symptoms.	spiratory system. Inhalat al fume fever characteriz	tion of high concentrations of ed by a metallic taste in the
Chronic inhalation of high concentration carcinogens.	n of high concentrations of ations of ferric oxide may po	iron oxide fumes or dust may assibly enhance the risk of lur	lead to benign pneumoong cancer development in	coniosis (siderosis). Inhalation in workers exposed to pulmonary
abdominal cramp		result in lead-induced systemess and headache. Prolonged ects.		
Suspected Cancer Agent?X_	NO: This product's ingredients are VES: Enderal OSHA			
Emergency and First Aid Procedures		NTPIARC		
• .		es, remove to fresh air, seek n	nedical aid immediately.	
Eyes - Flush with	n water for at least 15 minute	es.		
Spill or Leak Procedures	Andrew Control of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of	San Old and the Property of the second state of the second	that he than the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	The same is to the Grand and the descention which is the same
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exposure exceed	ds TLV's. 	when welding, burning, sawing	g, brazing, grinding or ma	achining when
	·	as required by exposure. Oth	her protective equipment	t should be utilized
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•		airborne contaminants which n		-
Arc or spark gene	erated when welding or burn	ning could be a source of ignit	ion for combustible and	flammable materials.
				MOR 000673
The information in this MSDS wa		believe are reliable. However, the infr	ormation is provided without an	y representation or warranty, express or

The conditions or methods of handling storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.

### CATERPILLAR

Rec. 10/9/01 FAP

Search Again Print Cover Page

MSDS Number:

1002

Product Name:

CAT HYDRAULIC OIL (HYDO) SAE 10W

Manufacturer:

MOBIL OIL

Part Number(s):

1195141 1195142

1195143 1214044

1556216 2010776

2P9063 7X7613

7X7860 7X7861

7X7862 8C9926

8T9578 8T9579

8T9580 8T9581

9X2013 9X2014

9X6171 9X6172

9X6173 9X6468

9X8532 9X8533

(303) 893-1322

### 24-hour Emergency Contacts:

Rocky Mountain Poison Center Denver, Colorado (800) 458-5924 toll free U.S. & Canada

Swiss Toxicological Information Centre Zurich, Switzerland

++ 41 (0) 1 251 51 51

### If you have questions about Caterpillar Material Safety Data Sheets, please contact:

Gina Staniszewski

Caterpillar Inc.

100 NE Adams Street Peoria, IL USA 61629-3350

(309) 675-5182 phone

(309) 494-1462 fax

e-mail: msds@cat.com

MOR 000674

MOR 000675

### CAT HYDRAULIC OIL (HYDO) SAE 10W

### MATERIAL SAFETY DATA BULLETIN

_____

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CAT HYDRAULIC OIL (HYDO) SAE 10W

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD. FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information: 800-662-4525 856-224-4644 CHEMTREC: 800-424-9300 202-483-7616

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

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See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

### 3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous. EFFECTS OF OVEREXPOSURE: No significant effects expected. EMERGENCY RESPONSE DATA: Brown Liquid. Note: Pressurized mists may form a flammable mixture. DOT ERG No. - NA

______

### 4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. High pressure accidental injection through the skin requires immediate medical attention for possible incision, irrigation and/or debridement.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, seek medical attention.

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### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Note: Pressurized mists may form a flammable mixture. Flash Point C(F): > 200(392) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA.

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.
Elemental oxides.

### 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

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PERSONAL PRECAUTIONS: See Section 8

### 7. HANDLING AND STORAGE

HANDLING: High pressure injection under the skin may occur due to the rupture of pressurized lines. Always seek medical attention.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

conditions of use and with adequate ventilation.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

_____

APPEARANCE: Liquid

COLOR: Brown ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): > 200(392) (ASTM D-92)

FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.88-0.91 SOLUBILITY IN WATER: Negligible PARTITION COEFFICIENT: > 3.5 VISCOSITY AT 40 C, cSt: 38.7 VISCOSITY AT 100 C, cSt: 6.5 POUR POINT C(F): < -30(-22)

(Section continued next page)

FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

### 10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

### 11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

______

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN TRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products.

--- SUBCHRONIC TOXICOLOGY (SUMMARY) ---

Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal applications to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations, including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

--- REPRODUCTIVE TOXICOLOGY (SUMMARY) ---

Dermal exposure of pregnant rats to representative formulations did not cause adverse effects in either the mothers or their offspring.

(Section continued next page)

### ---CHRONIC TOXICOLOGY (SUMMARY) ---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as the Mobil Modified Ames Test and IP-346.

### ---SENSITIZATION (SUMMARY) ---

Representative Mobil formulations have not caused skin sensitization in guinea pigs.

### 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: This product is expected to be inherently biodegradable. There is no evidence to suggest bioaccumulation will occur. It is not expected to be toxic to aquatic organisms.

Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

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### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

### 14. TRANSPORT INFORMATION

______

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

______

### 15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, MITI, and DSL.

EU Labeling: EU labeling not required.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains the following SARA (313) Toxic Release Chemicals:

CAS NUMBER CONC. CHEMICAL NAME PHOSPHORODITHOIC ACID, O,O-DI 68649-42-3 1.29% C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP)

The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS 7440-66-6 22 68649-42-3 18, 20, 21, 22, 24, ZINC (ELEMENTAL ANALYSIS) (0.14%) 7440-66-6 PHOSPHORODITHOIC ACID, O,O-DI 68649-42-3 C1-14-ALKYL ESTERS, ZINC SALTS (2: 25

1) (ZDDP) (1.29%)

--- REGULATORY LISTS SEARCHED ---

 1=ACGIH ALL
 6=IARC
 1
 11=TSCA 4
 16=CA P65 CARC
 21=LA RTK

 2=ACGIH A1
 7=IARC
 2A
 12=TSCA 5a2
 17=CA P65 REPRO
 22=MI 293

 3=ACGIH A2
 8=IARC
 2B
 13=TSCA 5e
 18=CA RTK
 23=MN RTK

 4=NTP CARC
 9=OSHA CARC
 14=TSCA 6
 19=FL RTK
 24=NJ RTK

(Section continued next page)

13FEB2001

5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK

25=PA RTK 26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

### 16. OTHER INFORMATION

USE: HYDRAULIC OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

For Internal Use Only: MHC: 1* 1* NA 1* 1*, MPPEC: A, TRN: 478909-00, ELIS: 400222, CMCS97: 971670, REQ: US - MARKETING, SAFE USE: L EHS Approval Date: 13FEB2001 *************

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EMERSON & CUMING, INC. .AGON COURT WOBURN, MASSACHUSETTS 01888 Land GEN OCT > 6 1995

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT. NOTIFY: CHEMTREC USA: 1-800-424-9300

INTERNATIONAL: 202/483-7616(COLLECT)

THE MOREY CORP.

SECTION 1 IDENTIFICATION

PRODUCT NAME: CATALYST 23LV

General Chemical Description: Aliphatic Amine

SECTION 2 INGREDIENTS

Exposure Guidelines OSHAF PEL Components % by Weight ACGIH TLV Polyoxypropylene Polyamine 50 - 60% ΝF NE Polyglycol Diamine 40 - 50% NE · ΝE

SECTION 3 PHYSICAL DATA

Boiling Point (Degree F): >480 Vapor Pressure (mm Hg @ 25°C): < 0.001 Percent Volatiles by Weight: ND Specific Gravity (water = 1): 1.00 Polubility in Water: Soluble Vapor Density: Heavier than air

Appearance and Odor: Amber liquid, amine odor

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Degree °F): >200 (PMCC)

Flammable Limits: Not Established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions.

MOR 000683

PRINTED: 10/23/95

### CATALYST 23LV

### pecial Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

### SECTION 5 REACTIVITY DATA

### Product Stability:

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

### Incompatibility:

Incompatible with strong oxidizers, acids, bases, epoxides.

### Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, oxides of nitrogen, amines and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

#### Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with epoxies or exposure to incompatible substances.

### SECTION & RELEASE RESPONSE DATA

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

### Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

MOR 000684

PRINTED: 10/23/95

### CATALYST 23LV

### SE ION 7 HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to to use.

### Personal Protection:

This product can cause eye burns. Prevent eye contact through the use of a face shield used in conjunction with either splash-proof chemical goggles or chemical safety glasses. This product can cause skin burns and may cause allergic skin responses. Components of this product may also be absorbed through the skin. Wear appropriate protective gloves, a proper chemical-resistant apron and additional impervious clothing to prevent all skin contact, contamination of clothing and possible absorption through the skin. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower must be available.

### Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing.

### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

### SECTION 8 HEALTH DATA

### Routes of Exposure:

Skin and eye contact, inhalation of vapors.

### Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin, eye and/or respiratory disorders.

### Eye Contact:

Contains materials corrosive to the eyes; may cause burns and possible corneal injury. Permanent impairment of vision or blindness may occur.

### Skin Contact:

Contains materials corrosive to the skin; may cause severe burns and blistering. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals. May be harmful if absorbed through the skin.

MOR 000685

PRINTED: 10/23/95

### CATALYST 23LV

#### .nhalation:

Vapors may cause irritation, nausea, and headaches.

### Ingestion:

Harmful if swallowed. May cause burns to the mouth and upper gastro-intestinal tract.

### Chronic Health Effects:

None known

### SECTION 9 FIRST AID PROCEDURES:

### Eve Contact:

Immediately flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

### Skin Contact:

Immediately flush the affected area of the skin with plenty of water, while removing contaminated clothing or shoes. Follow by thoroughly washing with soap and water. Avoid scrubbing, as this action could increase skin absorption and worsen the effect of chemical contact. Get immediate medical attention. Bo not reuse contaminated clothing until properly cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed.

### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

### Ingestion:

DO NOT induce vomiting. If victim is conscious and alert, dilute by giving water to drink; never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

### SECTION 10 ADDITIONAL INFORMATION

### TSCA Status:

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

### SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

MOR 000686

### CATALYST 23LV

Special Notes:

Date Prepared: 4/21/93

Document No.: 600441

Revision Information: Format upgrade

Supersedes: 8/9/88

Prepared by: David Haas

Abbreviations: NA = Not Applicable NE = Not Established ND = Not Determined

ppm = Parts per Million mg/m3 = Milligrams Per Cubic Meter 

MOR 000687

SAFETY INFORMATION: (617)861-9600 ADDITIONAL MSDS: (617)828-3300

PRINTED: 10/23/95

### MATERIAL SAFETY DATA SHEET

320 CLEANER

MARKEM CORPORATION

Page

1 OF 7 6/04/99

Revised Replaces

2/13/99

Printed 8/13/99

### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT PART NUMBER: 8000034

DESCRIPTION: 320 CLEANER

COMPANY:

**EMERGENCY RESPONSE NUMBERS:** 

Markem Corporation

150 Congress Street

Keene, NH 03431

Transportation:

United States: (800) 424-9300 International: (703) 527-3887(collect)

Product Safety and Environmental:

(603) 352-1130

### 2 HAZARDOUS INGREDIENTS

COMPONENT ETHYL ACETATE ISOPROPYL ALCOHOL CAS #

PCT(WT)

141-78-6 67-63-0

30-60 30-60

Exposure and physical property information is presented in Section 9. If the total percentage is less than 100, the balance of this product is not considered to be hazardous as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

HMIS RATING SYSTEM

NFPA RATING SYSTEM

Health: 1 Flammability: 3 Health:

Flammability: 3

Reactivity:

Reactivity: 0

Protection: X

POTENTIAL HEALTH CONSIDERATIONS

LIKELY ROUTES OF ENTRY:

Ingestion; Inhalation; Absorption; Contact

TARGET ORGANS:

Respiratory Tract; Eyes; Kidneys; Nervous System;

POTENTIAL IMMEDIATE EFFECTS FROM OVEREXPOSURE

EYE CONTACT

Can cause minor irritation, tearing and reddening.

SKIN CONTACT

Can cause minor skin irritation, defatting, and dermatitis.

SKIN ABSORBTION

Minimal hazard in normal industrial use.

## MATERIAL SAFETY DATA SHEET Page Revis

320 CLEANER MARKEM CORPORATION

Page 2 OF 7 Revised 6/04/99 Replaces 2/13/99 Printed 8/13/99

### 3 HAZARDS IDENTIFICATION (Cont.)

### INHALATION

Can cause respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

#### INGESTION

Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

POTENTIAL LONG-TERM EFFECTS FROM OVEREXPOSURE:

### CANCER INFORMATION

None of the substances have been shown to cause cancer. Not a carcinogen according to NTP, IARC or OSHA.

A4 - Not classifiable as a human carcinogen

### REPRODUCTIVE SYSTEM INFORMATION

None of the substances have been shown to cause reproductive system disorders.

ADDITIONAL HEALTH HAZARD INFORMATION

No information available.

MEDICAL CONDITIONS POTENTIALLY AGGRAVATED BY OVEREXPOSURE No data found

CHEMICAL INTERACTIONS

No information found.

### 4. FIRST AID MEASURES

### EYE CONTACT

Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Get immediate medical attention.

### SKIN CONTACT

Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

### INHALATION

Remove to fresh air. If not breathing, perform rescue breathing and, if available, have a trained person administer oxygen. Get medical attention immediately.

### INGESTION

Emergency personnel should be contacted immediately and be provided with this MSDS. For ingestion of small quantities of chemicals, the risk associated with inducing vomiting usually exceeds the poisoning risk.

Get medical attention immediately. Drink 2 glasses of water. Contact a poison information service. Stomach evacuation may be appropriate, as recommended by

### MATERIAL SAFETY DATA SHEET

320 CLEANER
MARKEM CORPORATION

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### 4 FIRST AID MEASURES (Cont.)

medical professionals, only if a significant quantity of the materials has been ingested. Stomach evacuation should only be carried out by trained and properly equipped medical personnel.

### 5. FIRE FIGHTING MEASURES

### FLAMMABILITY DATA

FLASH POINT:

26 F

EXPLOSIVE/FLAMMABILITY LIMITS ESTIMATED FROM INGREDIENTS:

LOWER LIMIT: 2.0 % UPPER LIMIT: 12.0 %

AUTOIGNITION TEMPERATURE ESTIMATED FROM INGREDIENTS:

750 F

### GENERAL HAZARDS

Vapors may be ignited by heat, sparks, flames or other sources of ignition giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Container may explode in heat of fire. Empty container may still contain residual material that can ignite and/or result in an explosion. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty container to heat, flame, sparks, static electricity, or other sources of ignition.

### EXTINGUISHING MEDIA

Use alcohol foam, carbon dioxide (CO2) or dry chemical. Water may not be effective to extinguish fire. Use water spray to cool fire-exposed containers and to protect personnel.

### FIRE FIGHTING INSTRUCTIONS

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location. Heat may build pressure and rupture closed containers, spreading fire and increasing risk of burns or injuries. Water may be ineffective in firefighting due to low flash point and limited miscibility with water. Flammable/combustible components of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling. Even if material is water soluble, it may not be practical to extinguish fire by water dilution. Notify authorities if liquid enters sewers or other public waters.

HAZARDOUS COMBUSTION PRODUCTS carbon dioxide; carbon monoxide

### 6 ACCIDENTAL RELEASE MEASURES

### SPILL CLEAN-UP PROCEDURES

Shut off ignition sources; smoking, flames or other sources of ignition must not be permitted in the area. Small Spills: Take up with sand or other noncombustible absorbent material and put into properly labeled containers for disposal. Large Spills: Dike ahead of liquid spill area to minimize migration and vapor generation. Ventilate the area. Get professional help from outside

# MATERIAL SAFETY DATA SHEET Page Revise

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### 6 ACCIDENTAL RELEASE MEASURES (Cont.)

contractors, the fire department or your trained spill brigade.

HEALTH CONSIDERATIONS AND PROTECTIVE EQUIPMENT

Follow personal protective equipment recommendations found in this MSDS.

### 7 HANDLING AND STORAGE

### HANDLING.

Avoid contact with material, avoid breathing vapors, use only in a well ventilated area, use bonding and grounding when transferring this material.

### STORAGE

Store in a cool dry ventilated location, away from oxidizers, heat, flame or other incompatible conditions. Keep container(s) closed if possible.

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### ENGINEERING CONTROLS

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep exposure to airborne contaminants below the TLV, PEL, or other recommended exposure limit and/or maintain operator comfort. These controls should be explosion-proof when exhausting flammable vapors.

Facilities storing or using this material should be equipped with an eyewash and safety shower.

### RESPIRATORY PROTECTION

If air monitoring indicates airborne concentrations at or above the limits, or symptoms of inhalation over-exposure occur, a respiratory protection program may be required. Engineering controls to reduce the exposure below acceptable limits are usually preferable to a respirator program.

### EYE PROTECTION

Chemically resistant safety glasses with side shields must be worn when handling this product. Further eye protection such as chemical splash goggles and/or face shield must be worn when the possibility exists for eye contact due to splashing or spraying liquid or airborne particles. Contact lenses should not be worn. An eye wash station should be available.

### SKIN PROTECTION

Depending upon conditions of use, wear protective gloves and other protective equipment. Inspect gloves for chemical break-through and replace as needed. Clean equipment thoroughly after each use.

Appropriate gloves to be used for MARKEM products that are mixtures have not been determined. Glove type(s) for ingredients present at 10% or more (if known) are:

Nitrile; Neoprene; Natural rubber

### MATERIAL SAFETY DATA SHEET

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### 9 PHYSICAL AND CHEMICAL PROPERTIES - PRODUCT MIXTURE

APPEARANCE:

Liquid

COLOR:

Colorless to slightly pale

ODOR:

Strong solvent

SPECIFIC GRAVITY(g/ml): 0.83 PERCENT VOLATILE:

100

VOC CONTENT:

Not Determined

VAPOR PRESSURE (mmHg): BOILING PT OR RANGE:

10-100

pH:

Not determined

VISCOSITY:

ND ND

VAPOR DENSITY:

Heavier than air

FREEZING POINT:

EVAPORATION RATE:

2-10 (n-Butyl acetate = 1)

### 9.1 EXPOSURE, PHYSICAL AND CHEMICAL PROPERTIES FOR INGREDIENTS

____

COMPONENT	TLV	PEL	STEL
ETHYL ACETATE	400 ppm	400 ppm	NE
ISOPROPYL ALCOHOL	400 ppm	400 ppm	500 ppm

SPECIFIC EVAP RATE WATER VAPOR N-BUTYL SOL PRES GRAVITY g/ml COMPONENT ACETATE=1 % mmHq 0.881 3.9 88 74 ETHYL ACETATE 0.783 1,44 100 33 ISOPROPYL ALCOHOL

### 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal conditions.

### CONDITIONS TO AVOID

Elevated temperatures in combination with sparks, open flames, or other sources of ignition.

### INCOMPATIBILITY

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

carbon dioxide; carbon monoxide

### 11 TOXICOLOGICAL INFORMATION

### Ethyl acetate:

LC50 (rat): 16000 ppm (6-hour exposure).

LC50 (mouse): 44000 mg/m3 (12200 ppm) (3-hour exposure).

LD50 (oral, rat): 11.3 mL/kg (10200 mg/kg).

### MATERIAL SAFETY DATA SHEET

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### TOXICOLOGICAL INFORMATION (Cont.)

LD50 (oral, rat): 5600 mg/kg. LD50 (oral, mouse): 4100 mg/kg. LD50 (oral, rabbit): 4900 mg/kg. LD50 (oral, guinea pig): 5500 mg/kg. LD50 (dermal, rabbit): Greater than 20 mL/kg (18000 mg/kg). Isopropyl alcohol:

LD50 (rat, oral): 4.42 - 5.84 g/kg

LD50 (mouse, oral): 4.8 g/kg LD50 (rabbit, oral): 7.9 g/kg LD50 (rabbit, dermal): 13 g/kg

#### 12. ECOLOGICAL INFORMATION

### Ethyl acetate:

LC50 Pimephales promelas (fathead minnow) 230 mg/1/96 hr.

If released into water ethyl acetate will be lost primarily by evaporation (half-life 10 hr in a typical river) and biodegradation.

Bioconcentration in fish will be insignificant.

In the atmosphere, ethyl acetate will react with photochemically produced hydroxyl radicals (half-life 8.3 days). A few percent an hour will disappear under photochemical smog situations.

2-Propanol:

LC50 Pimephales promelas (fathead minnows) 11,830 mg/l/1 hr, 11,160 mg/l/24 hr 11,130 mg/l/48 hr, 72 hr, 96 hr,

When released into water, isopropanol will volatilize and biodegrade. In the atmosphere it will photodegrade primarily by reaction with hydroxyl radicals with a half-life of one to several days.

### 13 DISPOSAL CONSIDERATIONS

POTENTIAL EPA WASTE CODE(S): D001: F003

### DISPOSAL

Dispose of by incineration or waste water treatment following Federal, State, Local or Provincial regulations.

### 14 TRANSPORT INFORMATION, DOT and IATA:

DOT AND IATA: FLAMMABLE LIQUID, N.O.S., (ISOPROPANOL,

ETHYL ACETATE), 3, UN1993, PGII LABEL REQUIRED: FLAMMABLE LIQUID

<del></del>	MATERIAL SAFETY DATA SHEET	Page Revised	7 OF 7
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### 15 REGULATORY INFORMATION

Those ingredients appearing on the following list that do not appear in Section 2 are present at <0.1% for carcinogens, <1% for other hazardous substances, or are not considered hazardous in this product.

CERCLA: The following components have CERCLA reportable quantities:

CAS NUMBER CHEMICAL NAME 141-78-6 ETHYL ACETATE

SARA TITLE III: The following components are listed under Section 313:

CAS NUMBER CHEMICAL NAME

67-63-0 ISOPROPYL ALCOHOL
WHMIS: The following components are WHMIS Workplace Hazardous Materials:

CAS NUMBER CHEMICAL NAME 141-78-6 ETHYL ACETATE

67-63-0 ISOPROPYL ALCOHOL

TSCA: All chemicals in this product are on the USEPA TSCA 8(b) inventory.

TSCA: The following components are subject to TSCA 12(b) regulations:

CAS NUMBER CHEMICAL NAME
141-78-6 ETHYL ACETATE
67-63-0 ISOPROPYL ALCOHOL

RCRA: The following components are subject to RCRA land disposal restrictions:

CAS NUMBER CHEMICAL NAME 141-78-6 ETHYL ACETATE

### 16 OTHER INFORMATION

MSDS prepared by Richard C. Berry

Rec. 10/5/00 500

### **MATERIAL SAFETY DATA SHEET**

(COMPLIES WITH 29CFR 1910.1200)

Hazardous Components (Specific Chemical Identity):  Chemical Common Name(s) % incompatibility (materials to avoid): Ox  A Propylene glycol methyl ether 10 - 30 Hazardous Decomposition or By-produc			(COMPLIES WITH	29CFR 1	1910.1200)		
Product Class: General purpose water-based cleaner							
Emergency Teisphone Number: 800-255-3924 Teisphone Number for Information: 651-481-1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Address: 1, 1900 Manufacturar's Name and Name and Manufacturary Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name and Name			iss & Surface Cleaner	, i - • ·			(100°C
Talephone Number for Information: 651-481-1900 Multi-Grund's Name and Address Multi-Clean®, A Division of Minuterian International, Inc. Sociologian Process Multi-Clean®, A Division of Minuterian International, Inc. Sociologian Process SECTION II: COMPOSITIONINFORMATION ON INGREDIENTS SECTION II: COMPOSITIONINFORMATION ON INGREDIENTS A Proyeline glycot methyl ether 10-30 A Proyeline glycot methyl ether 10-30 CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B CAS \$107-892 B							
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Mide Cland, A Division of Minutenan International, Inc. Shrowees, INI 55128 SECTION II COMPOSITIONINFORMATION ON INGREDIENTS  Hazardous Components (Specific Chemical Identity): A CAS #173-962 Common Name() B Propriese glycol n-buryl other (0 - 3) CAS #173-96-2 B Propriese glycol n-buryl other (0 - 3) CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-3 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #173-96-2 CAS #							14. 74.
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Signs and Symptoms of Exposure: Excessive exposure may cause headaches of narrotic effects.  Carclinogenicity: NTP? No OSHA Regulated? No OSHA Regulated? No Target Organ (s): Skin, eyes, liver and kidneys.  Medical Conditions Generally Aggravated by Exposure: N. Av. Health Hazards, Chronic: N. Av. SECTION IV - FIRST AID MEASURES Emergency and First Aid Procedures: If Swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: If Swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: If Swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: If Swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: Sources Used: Raw material data, general toxicology from the trade for contaminate of colding before reuse.  Sources Used: Raw material data, general toxicology from the trade for the containing product.  SECTION V - FIRE FIGHTING MEASURES Emembel Illy: Combustible Autolightion Temperature: N. Av. Extinguishing Media Water? Alcohol Foam? X CQ? X Dry Chemical? X Special Fire Fighting Procedures: Water hose stream may spread fire. Use water spray to keep containers cood. Invalual Fire and Explosion Mazards: Vapors are heavier than air and may travel over sciences of possible gritton (Indexes, Sparks, pilot lights, etc) where ignition may court. Ground all equipment.  Total Fire Fighting Procedures: Water hose stream may spread fire. Use water spray to keep containers cood. Invalual Fire and Explosion Mazards: Vapors are heavier than air and may travel over sciences of possible gritton (Indexes, Sparks, pilot lights, etc) where ignition may court. Ground all equipment.  Total Fire Fighting Procedures: Section 3113 Toxic Chemicals: None Section 313 Toxic Chemicals: None Section 310 Toxic Chemicals: None Section 310 Toxic Chemicals: None Section 310 Toxic Chemicals: None Section 310 Toxic Chemicals: None Section 310 Toxic Chemicals: None Section 310 Toxic Chemicals: None Section 310 Toxic Chemicals: None Sectio							HON
SECTION V - FIRE FIGHTING MEASURES Flammability: Combustible Flammability: Combustible Flammability: Compoundance or Special Regulations Two-portaing Liquid? Autolination Hazard Category: Water Fog? Alcohol Foam? X CO2? X Dry Chemical? X Dry Chemical? X Section NIV - Regulations Special Fire Fighting Procedures: Water hose stream may spread fire. Use water sproy to keep containers could unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel over State Containers and Existing to Mechanical Impact: None Sensitivity to State Discherage: No. Av. Section VII - ACCIDENTAL RELEASE MEASURES Section VII - ACCIDENTAL RELEASE MEASURES Section VII - ACCIDENTAL RELEASE MEASURES Section VII - REPOSURE CONTROLS/PERSONAL PROTECTION Respiratory Protection (Specify Types): Not required Mechanical (General): As required to keep vapor level below TLVs Reproted Frostective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Not required Contrel Protective Clothing or Equipment. Contrel Protective Clothing or Equipment. Contrel Protective Clothing or Equipment. Contr			ura may causa haadaahaa				
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OSHA Regulated? No Medical Conditions Generally Aggravated by Exposure: N. Av. Health Hazards, Chronic: N. Av. SECTION IV - FIRST AID MEASURES Energency and First Aid Procedures: If Swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: Water Contact: It is swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: It is swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: It is swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: It is swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: Water flow of the contact water and contact water and call a physician immediately. Eye Contact: Water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact water flow of the contact wat		ity: NTP? No IARC	Monographs? No	Waste Dis	sposal Method:		
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SECTION IV - FIRST AID MEASURES Emergency and First Aid Procedures: If Swallowed: Drink two glasses of water and call a physician immediately. Eye Contact: Push eyes with running water for at least 15 minutes. It irritation persists, oblain medical attention. Skin Contact: Flush thoroughly with cool water. Remove and wash attention of the contaminated clothing before reuse.  Sources Used: Raw material data, general toxicology from the trade for similar products.  SECTION V - FIRE FIGHTING MEASURES Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used): 147°F closed cup Flash Point (method used):			N. AV.				13 3001
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attention. Skin Contact: Flush thoroughly with cool water. Remove and wash conteminated clothing before reuse.  Sources Used: Raw material data, general toxicology from the trade for similar products.  SECTION V - FIRE FIGHTING MEASURES Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flash Point (method used): 147°F closed cup Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Water? Alcohol Foam? X CO2? X Dry Chemical? X Vaporizing Liquid? Other? Alcohol Foam? X CO2? X Dry Chemical? X Special Fire Fighting Procedures: Water Fog? Alcohol Foam? X CO2? X Dry Chemical? X Vaporizing Liquid? Other Flammability: Classification: Unknown Sersitivity to keep containers cood. Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel over distances to ignition sources (heat, flames, sparks, pilot lights, etc) where ignition may cotation sources (heat, flames, sparks, pilot lights, etc) where ignition may cotation sources (heat, flames, sparks, pilot lights, etc) and provide distances to Stated Diseolatory: Now. Section VII - Accobental Released of Spilled: Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide vernilation. For large spills, dike and contain spill with inert material (sand, earth, etc.) Coffect spill with absorbent material (example; floor-drij). For small spills, wipe up spill with mop or rag. Dispose of or treat mop or rag properly to avoid fire.  SECTION VII - PAPOSURE CONTROL SPERSONAL PROTECTION  Respiratory Protection (Specify Typea): Not required  Other Protective Glothing or Equipment: Not required  Other Protection: Approved salety goggles or glasses. Footwear						Compound,	CHEANIN
Section XV - PREPARATION DATA Sources Used: Raw material data, general toxicology from the trade for similar products.  SECTION V - FIRE FIGHTING MEASURES Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: Combustible Flammability: N. Av. LEL N. Av. UEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N							
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SECTION V - FIRE FIGHTING MEASURES Flammability: Combustible Flammability: Combustible 147*F closed cup Flammability: Combustible 147*F closed cup Flammability: N. Av. LEL N. Av. LEL N. Av. LEL N. Av. LEL N. Av. Extinguishing Media Water? Alcohol Foam? X CO2? X Dry Chemical? X Special Fire Fighting Procedures: Water hose stream may spread fire. Use water spray to keep containers cool. Unusual Fire and Explosion Hazarda: Vapors are heavier than air and may travel over coround all equipment. Gistances to ignition sources (heat, flames, sparks, pilot lights, etc.) where ignition may be coround all equipment. Tog Flammability Classification: Unknown Sensitivity to Machanical Impact: None Sensitivity to State! Discharge: N. Av. SECTION VI - ACCIDENTAL RELEASE MEASURES Supps to be Taken in Case Material is Released or Spilled: Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide ventilation. For large spills, dike and contain spill with inent material (sand, earth, etc.). Coflect spill with absorbent material (example; floor-dri). For small spills, wipe up spill with more or rag properly to avoid fire.  SECTION VII - HANDLING AND STORAGE Do not store near heat, sparks or flame. Other Precautions to be Taken in Handling and Storing: Do not store near heat, sparks or flame. Other Precautions to be Taken in Handling and Storing: Do not store near heat, sparks or flame. Other Precautions to be Taken in Handling and Storing: Do not store near heat, sparks or flame. Other Precautions (General): As required to keep vapor level below TLVs and PELs (Section XI) Other: Not required  Mechanical (General): As required to keep vapor level below TLVs and PELs (Section XI) Other: Not required Work/Hygienic Practices: Do not contaminate food or beverages with cleaning			ology from the trade for				
Figure Projection V - FIRE FRIGHTING MEASURES Flammability: Combustible  Autolognition Temperature: N. Av. Flash Point (method used): 147°F closed cup Flammability: Combustible  Variety: N. Av. Flash Point (method used): 147°F closed cup Flammability: N. Av. Flash Point (method used): 147°F closed cup Flammability: N. Av. Flash Point (method used): 147°F closed cup  Water Fog? Alcohol Foam? X CO2? X Dry Chemical? X Vaporizing Liquid? Other? Special Fire Flighting Procedures: Water hose stream may spread fire. Use water spray to keep containers cod. Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel over fistances to ignition sources (heat, flames, sparks, pilot lights, etc) where ignition may socur. Ground all equipment. Flore Flammability Classification: Unknown Sensitivity to Mechanical Impact: None Sensitivity to Static Discharge: N. Av. SECTION VII - ACCIDENTAL RELEASE MEASURES Sieps to be Taken in Case Material it Released or Spilled: Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide, rentilation. For large spills, dike and contain spill with inert material (sand, earth, etc.) Collect spill with absorbent material (example; floor-dri). For small spills, wipe up spill with mop or rag. Dispose of or treat mop or rag properly to avoid fire. SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION Respiratory Protection (Specify Types): Not required. SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION Respiratory Protection (Specify Types): Not required. Special: Not required Mechanical (General): As required to keep vapor level below TLVs and PELs (Section XI) Other: Not required Work/Hyglenic Practices: Do not contaminate food or beverages with cleaning Work/Hyglenic Practices: Do not contaminate food or beverages with cleaning						1~401-1800	
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Sensitivity to Mechanical Impact: None Sensitivity to Startic Discharge: N. Av.  SECTION VI - ACCIDENTAL RELEASE MEASURES Steps to be Taken in Case Material is Released or Spilled: Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide ventilation. For large spills, dike and contain spill with inert material (sand, earth, etc.). Collect spill with absorbent material (example; floor-dri). For small spills, wipe up spill with mop or rag. Dispose of or treat mop or rag properly to avoid fire.  SECTION VII - HANDLING AND STORAGE Precautions to be Taken in Handling and Storing: Do not store near heat, sparks or flame. Dither Precautions: Keep out of reach of children. Keep from freezing.  SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION Respiratory Protection (Specify Types): Not required. Avoid breathing spray mist. Ventilation: Local Exhaust: Not required and PELs (Section XI)  Protective Gloves: Natural rubber or synthetic. Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide Work/Hygienic Practices: Do not contaminate food or beverages with cleaning			Ì				
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			or beverages with cleaning				
			o. Corolages with Cleaning				

	110.1200)				
<b>SECTION I</b>	X - PHYSICAL	CHEMICAL	CHARACTE	RISTICS	
<b>Boiling Pol</b>		nately 212°F		pH: 10.9	
Specific G	ravity (H20) = 1	: 1.005	•	% Volatile: > 95	
	sity (Air = 1):	> 1		Odor Threshold:	N. Av.
	n Rate (Butyl 🛭		N. Av.	Oil/Water Distribu	tion
	n Water: Co			Coefficien	t: N. Av,
	sure (MM HG)	: N. Av.			
	nt: N. Ap.				
	- STABILITY				
Stability:	Unstal		Stable:	(	
Conditions		l. <b>Ap</b> .			
	ility (materials				
Mazardous	Decompositio Polymerization	n or By-proc			<b>_</b> V
Conditions			y occur:	Will not oc	cur: X
		Ap.	DUATION		
Chemical	1 - TOXICOLOG OSHA PEL	ACGIH TL		1000	I CEO
					LC50
Α .	100 ppm	100 ppm	N. Av.	6,600 mg/kg	> 200 mg/l (rat, 1 hr.)
В	None	None	N. Av.	(rat, oral) 3,300 mg/kg	(Iai, 1 III.) N. Av.
"	HOUR	NONE	IN. AV.	(rat, oral)	14. 64.
Ιc	None	None	N. Av,	3,400 mg/kg	N. Av.
ľ	110110	110110	14. 71.	(rat, oral)	••. / ••,
D	None	None	N. Av.	N. Av.	N. Av.
Teratogen.	Mutagen, Repr	oductive To	xin Status:	No conclusive da	ta available.
	ally Synergisti		N. Av.		
	II - ECOLOGIC				
	gical Informat				
	ate information				
	III - DISPOSAL	CONSIDER	ATIONS		
	osal Method:				
				state and federal re	
				depending on the	
	s being clean	ed as well	as state, le	deral and local so	ewer commission
regulations. RCRA Haza	rd Class: N.	Δ.,			
	V - TRANSPO		ATION		
	assification:			: A NOI	
Shipping Cl UN Number		Compound,	cleaning liqu	HO, NOI.	
	oup; N.Ap.				
	V - PREPARAT	TON DATA			
	y: James Trac Number: 651				
Date: 1/99		401-1300			
	VI - REGULATO	NEV INEODI	ATION		
		ONT INFOR	MATION		
	Regulations atus: All ingre	diante lietad			
SARA Title	Reportable Qu	eastly. N. A	٧.		ı
		Hazardous C	hemicale:	None	
Section 302 Extremely Hazardous Chemicals: None Section 311/312 Hazard Category: Immediate health, chronic health, fire.					
Section 313 Toxic Chemicals: None					
State Regul					
	ATE OF CALIF	ORNIA			
			micals know	n to the State of C	atifornia to cause
				he standard industr	
	acture of this pr		•		
	l Regulations				
	Controlled Produ			2 B	
	VII - OTHER IN				
None					

### PA SYSTEM

2 A. Fire Hazard 0 A. Reactivity Hazard A. Health Hazard

INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER NO MANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE INED FROM THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR ROMAL INJURY OF PROPERTY DAMAGE TO VENDES, USERS OR THRD PARTIES CAUSED BY THE RIAL, SUCH VENDES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.

### MATERIAL SAFETY DATA SHEFT

(COMPLIES WITH 29CFR 1910,1200)

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION Identity (As Used on Label and List): Multi-Blend #5 Neutral Cleaner Product Class: General purpose water-based cleaner Emergency Telephone Number: 800-255-3924 Telephone Number for information: 612-481-1900 Manufacturer's Name and Address: Multi-Clean®, A Division of Minuteman International, Inc. 600 Cardigan Road Shoreview, MN 55126 SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS Hazardous Components (Specific Chemical Identity): Common Name(s) Chemical 10 - 30 Surfactant A (proprietary) R Water 60 - 100 CAS #7732-18-5 SECTION III - HAZARDS IDENTIFICATION **Emergency Overview** Appearance and Odor: Blue liquid, floral aroma. Primary Hazards: Non-hazardous in normal use. Potential Health Hazards Route(s) of Entry: Skin Absorption: ingestion: inhalation: Eye: May cause irritation on contact.

Skin: May cause irritation on contact. Ingestion: May be harmful if swallowed. inhalation: No hazardous vapors. Signs and Symptoms of Exposure: May cause Irritation on direct contact. Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No Target Organ (s): No additional data Medical Conditions Generally Aggravated by Exposure: N. Av. Health Hazards, Chronic: N. Av.

### SECTION IV - FIRST AID MEASURES

Emergency and First Aid Procedures:

If Swallowed: Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. Eye Contact: Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.

Sources Used: Raw material data, general toxicology from the trade for similar products.

### SECTION V - FIRE FIGHTING MEASURES

Flammability: No Flash Point (method used):

Autoignition Temperature: N. Ap.

Flammable Limits: N. Ap.

LEL

UEL

Extinguishing Media N. Ap. Water? Alcohol Foam?

Foam? CO27

Water Fog? Dry Chemical?

Vaporizing Liquid? Other? Special Fire Fighting Procedures: N. Ap. Unusual Fire and Explosion Hazards: N. Av. TDG Flammability Classification: Non-flammable Sensitivity to Mechanical Impact: None Sensitivity to Static Discharge: None

### SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled:

Dike and contain split with inert material (sand, earth, etc). Collect split with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

### SECTION VII - HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing:

Normal care in handling and storage.

Other Precautions: Keep out of reach of children. Keep from freezing.

### SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Types): Not required

Ventilation: Local Exhaust: Not required Special: Not required Mechanical (General): Normal good ventilation sufficient.

Other: Not required

Protective Gloves: Natural rubber or synthetic.

Eye Protection: Approved safety goggles or glasses. Footwear: Not required Other Protective Clothing or Equipment: Not required

Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.

SECTION IX - P	HYSICAL/CHEMICAL CHAR	ACTERISTICS
Boiling Point:	Approximately 212°F	pH: 7

Specific Gravity (H20) = 1: 1.00

Vapor Density (Air = 1): N. Av.

Evaporation Rate (Butyl Acetate = 1): N. Av.

Solubility In Water: Complete Vapor Pressure (MM HG): N. Av.

% Volatile: > 60 Odor Threshold: N. Av. OliWater Distribution Coefficient: N Av

Melting Point: N. Ap.

### SECTION X - STABILITY AND REACTIVITY

Stability: Unstable: Conditions to Avoid: N. Ab.

Incompatibility (materials to avoid): N. Av. Hazardous Decomposition or By-products: N. Av.

Hazardous Polymerization: Conditions to Avoid: N. Ap. May occur: Will not occur: X

### SECTION XI - TOXICOLOGICAL INFORMATION

١,	Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
	l A	None	None	N. Av.	N. Av.	N. Av.
	В	None	None	N. Av.	N. Av.	N. Av.

Teratogen, Mutagen, Reproductive Toxin Status: No Toxicologically Synergistic Products: N. Av.

### SECTION XII - ECOLOGICAL INFORMATION

Biodegradation Properties: Main component (A); Biodegraded to > 99% per SDA semi-continuous sludge test.

Ecotoxicological Information: Main component (A): LC50 (48 hr., daphnia magna)

6.2 mg/l

Chemical Fate Information: N. Av.

#### SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of spilled material in accordance with local, state and federal regulations Waste from normal cleaning procedures may be sewered, depending on the materials and/or contaminates being cleaned as well as state, federal and local sewer commission regulations.

RCRA Hazard Class: None

### SECTION XIV - TRANSPORT INFORMATION

Shipping Classification: Compound, cleaning liquid, N.O.I.

UN Number: N. Ap. Packing Group: N. Ap.

### SECTION XV - PREPARATION DATA

Prepared By: Mark Levitt

Telephone Number: 612-481-1900

Date: 7/18/97

### SECTION XVI - REGULATORY INFORMATION

US Federal Regulations

TSCA Status: All ingredients listed. CERCLA Reportable Quality: None

SARA THIS III

Section 302 Extremely Hazardous Chemicals: None

Section 311/312 Hazard Category: None Section 313 Toxic Chemicals: None

State Regulations

NOTICE STATE OF CALIFORNIA

Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product.

International Regulations

WHMIS Controlled Product Hazard Class: N. Ap.

### SECTION XVII - OTHER INFORMATION

None

N. Ap. - Not Applicable; N.Av. - Not Available

### NFPA SYSTEM

1 A. Health Hazard 0 A. Fire Hazard o A. Reactivity Hazard

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# **CONFORMAL COATING**

(SEE PC-101)

### PREPARED BY DISTRIBUTOR:



A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131

# MATERIAL SAFETY DATA SHEET

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986 and of 40CFR72). ISSUE DATE

November 25, 1985

REVISED

October 1, 1997

For Information or In An Emergency Call: (847) 455-7111

acturer's Name				
Various	·			
ct Name / Trade Name		Common	Name / Grade	
Copper - CR & HR Copper Leadtex Sheet			Copper Sheet, Electrolytic To	Oxygen Free, Hard Drawn ugh Pitch
ar a religioù fragt de				
E: Products Under Normal Conditions Do	Not Represent An Inhalation	, Ingestion or Contact H	ealth Hazard.	
Base Metal, Alloying Elements And Metallic Coatings	CAS#	WT % (1) OS	HA PEL (mg/g ² ) (3) A	CGIH TLV TWA (Unless Noted Otherwise) (mg/r
Base Metal	7440-50-8	>99.9	1	1 (Dunt & Adjob)
Copper (Cu)	7440-50-6	>99.9	•	1 (Dust & Mist)
Trace Less Than .1%				
Phosphorus (P)	7723-14-0	<0.1	0.1	0.1 (Yellow)
Antimony (Sb)		<0.1	0.5	0.5
Selenium (Se) Bismuth (Bi)	7440-69-9	<0.1 <0.1	0.2 N.E.	0.2 N.E.
Distribut (DI)	7440-03-3	<b>40.</b> <i>1</i>	14.G.	(4.E.
Coating - Leadtex			•	
Lead (Pb)	7439-92-1	I5 lbs/100 s	qft .05	0.05 (Dust & Fume)
6 Of Alloying Material Varies With Grade Of	Material.		n6 ACGIH Threshold Lir 3 OSHA Permissable B	
	Material.	(3) 199	3 OSHA Permissable 8	
I Is (At Normal Conditions)	Material.	(3) 199	3 OSHA Permissable E	exposure Limit.
I Is (At Normal Conditions) Solid	Material.	(3) 199	3 OSHA Permissable E se and Odor Copper Metallic	exposure Limit.
l Is (At Normal Conditions) Solid	Material.	(3) 199 Appearance	3 OSHA Permissable E se and Odor Copper Metallic	exposure Limit.
Solid Point (Base Metal) >1800° F		(3) 199 Appearance	os and Odor  Copper Metallic  ravity	exposure Limit.
Is (At Normal Conditions) Solid   Point (Base Metal) >1800° F		(3) 199 Appearance	os and Odor  Copper Metallic  ravity	exposure Limit.
N Is (At Normal Conditions) Solid Point (Base Metal) >1800° F  Jishing Media NA		(3) 199 Appearance	os and Odor  Copper Metallic  ravity	exposure Limit.
Solid Point (Base Metal) >1800° F  sishing Media NA		(3) 199 Appearant Specific G	os and Odor  Copper Metallic  ravity	exposure Limit.
Is (At Normal Conditions) Solid  Point (Base Metal) >1800° F  sishing Media NA  Firefighting Procedures Products in the solid state		(3) 199 Appearant Specific G	os and Odor  Copper Metallic  ravity	exposure Limit.
Solid Point (Base Metal) >1800° F  Jishing Media NA Firefighting Procedures Products in the solid state	present no fire or explo	Appearant Specific G	os and Odor  Copper Metallic  ravity	e, Odorless
Is (At Normal Conditions) Solid Point (Base Metal) >1800° F  Ashing Media NA Firefighting Procedures Products in the solid state at Fire and Explosion Hazards Dust hazard exists under fa	present no fire or explo	Appearance Specific G	3 OSHA Permissable & se and Odor  Copper Metallic ravity  > 8	exposure Limit.
Solid   Point (Base Metal)   >1800° F   Solid   Point (Base Metal)   >1800° F   Jishing Media   NA     Firefighting Procedures     Products in the solid state     Dust hazard exists under fa     Dispersion in air and strong	present no fire or explo	Appearance Specific G	3 OSHA Permissable & se and Odor  Copper Metallic ravity  > 8	e, Odorless
Solid Point (Base Metal) >1800° F  Jishing Media NA Freefighting Procedures Products in the solid state Dust hazard exists under fa Dispersion in air and strong	present no fire or explo	Appearant Specific G Specific G anali particle size. esult in an explosion	3 OSHA Permissable & control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	e, Odorless
Solid   Point (Base Metal)   >1800° F   Solid   Point (Base Metal)   >1800° F   Jishing Media   NA     Firefighting Procedures     Products in the solid state     Dust hazard exists under fa     Dispersion in air and strong	present no fire or explo	Appearant Specific G Specific G anali particle size. esult in an explosion	OSHA Permissable Estandarios and Odor Copper Metallic ravity > 8	e, Odorless

Toxic gases, aerosols and vapors may be released in a fire involving copper alloys if furnes of other compounds or other

Hazardous Decomposition Products

contacting materials are involved.

			СОР	
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NOTE: STEEL PRODUCTS IN	THE NATURAL STATE DO NOT PRES	ENT AN INHALATION INGESTION OF	CONTACT HAZARD HOWEVE	OPERATIONS SUCH AS
BURNING, WELDING,	SAWING, BRAZING AND GRINDING M	AY RELEASE FUMES AND/OR DUSTS	WHICH MAY PRESENT HEALTH	HAZARDS IF TLV'S ARE EXCEEDED
MAJOR EXPOSURE HAZARD			<del></del>	
⊠Inhalation	Pt Skin Contact	Skin Absorption	Eye Contact	Pt Ingestion
	E SAM COMMON	OKIII ADSOIPTION		E-4 m Restion
Effects of Overexposure				
freshly formed	osure to fumes/dust may prod oxide fumes of copper and le throat and influenzalike symp	ad may cause metal fume fe		
abdominal cran	gestion of lead particles may nps, anemia, muscle weakne damage and reproductive effo	ss and headache. Prolonged	nic toxicity. Symptoms of d exposure can cause be	lead poisoning include havioral changes, kidney
Suspected Cancer Agent?X	NO: This product's ingredients are	not found in the lists below.		
	YES:Federal OSHA	NTPIARC		
Emergency and First Aid Procedure	S			
If exposed to ex	cessive levels of metal fume	s, remove to fresh air, seek r	nedical aid immediately.	
Eyes - Flush wit	th water for at least 15 minute	es.		
SCHOOL STATEMENT	TO SALLEY STATE OF THE SALES			
Spill or Leak Procedures				
NA				
Waste Disposal Methods	_			
According to loc	al, state and federal regulation	ons		
and the second state of the second name of the second state of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	with the second of	in a resistance of the Taggraphy of the analysis of	a superprise of a	
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NIOSH/MSHA - exposure excee	Approved dust and fume, resids TLV's.	spirator should be used to av	roid excessive inhalation of	of particulates when
Local exhaust v exposure excee	entilation should be utilized wids TLV's.	when welding, burning, sawing	g, brazing, grinding or ma	chining when
	or goggles should be utilized he welding standards.	as required by exposure. Ot	her protective equipment	should be utilized
Participation of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	<b>化</b> 合金数	anten Barkina 1981 ann a		Substanting of the Salary and Marine and
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In welding, prec	autions should be taken for a	irborne contaminants which	may originate from compo	onents of the welding rod.
Arc or spark ger	nerated when welding or burn	ning could be a source of igni	tion for combustible and f	fammable materials.
			MOR	000699
The information in this MSDS vimplied, regarding the accuracy		believe are reliable. However, the int	formation is provided without any	representation or warranty, express or
				e. For this and other reasons, we do not g, storage, use or disposal of the product.

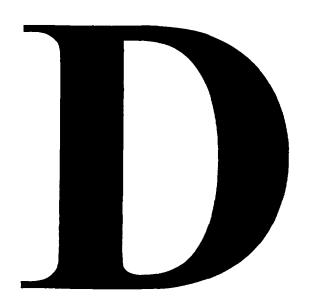
Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.

Product

# **CYANOACRYLATE**

(SEE SUPERGLUE)





MOR 000701

JISDS: 75597

ITEM: 2W757

ORDER: 0083498305

DROP LOCATION: P3-236

1300116

# **MATERIAL SAFETY DATA SHEET (MSDS)**

This MSDS should be attached or kept with the respective product with which it is associated. 

Associated Grainger Items 24757

2977 57

939757

MANUFACTURES 'S MAKE

EMERGENCY TELEPHONE NO.

DISTRIBUTED BY

(216) 566-2917

W. W. CRAINGER

CHICAGO, IL 60069

DATE OF PREPARATION

30-MAR-96

IMPORNATION TELEPHONE NO.

(800) 240-0248

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER

B2W757

______

REALTE: 2

PLANCABILITY: 4

REACTIVITY: 0

PRODUCT NAME

28757-3 T.F.R. DRY LUBE

*000CT CLASS

AMBORCE LUBRICANT

INCTION II - WALARDOOS INCREDIENTS

INCREDITATE		ACGIE	OSEA		
14 m.	· BY WY	TLV	PRL	BTING	¥.
THOPASE	13		1000	PPK	760
74-90-6					
TARE	13	806	***	PPM	760
106-97-8					
TETASE	57	400	400	77K	50
142-82-5	STEL.	500	500	PPK	
-PROPANCE	14	400	400	PPE	33
67-63-0	STEL	500	300	PPK	

_____

ECTION III - PHYSICAL DATA

THE NUMBER

260151 200151

PRODUCT WEIGHT: 5.53 LB./GAL.

EVAPORATION RATE: PASTER TEAM STEER

SPECÍFIC GRAVITI: 0.67

VAPOR DENSITY: MEAVIER THAN AIR

BOILING POINT: LT C -212 F.

MELTING POINT: N.A.

VOLATILE VOLUME: 99%

SOLUBILITY IN WATER: W.A.

WOLATILE WRIGHT: 98.65% (LESS PEDERALLY EXEMPT SOLVENTS)

TELES: 2 4 A

SECTION IV - FIRE AND EXPLOSION MARAND DATA

FLASE POINT

LEL

UEI.

PROPELLANT LT 0 P. 1.1

12.7

EXTERIOR SERVICE

CARBON DICKIDS, DRY CHRESCAL, POAR

UNGSTAL YIRE AND EXPLOSION MARADS: ISOLATE FROM MEAT, ELECTRICAL EQUIPMENT SPARES, AND OPEN FLAME. CLOSED CONTAINERS MAI EXPLODE WHEN EXPOSED TO EXTRE MEAT. APPLICATION TO NOT SURFACES SEQUIRES SPECIAL PRECACTIONS, DURING SHEEGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A REA BAZARD, STRFTONS MAY NOT BE IMMEDIATELY APPARENT, ONTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. MATER SPRAY MAY BE INTEFFECTIVE IF WATER IS USED. FOR MORILES ARE PREFERABLE. WATER MAY BE USED TO COOL CLO CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOS WHEN EXPOSED TO EXTREME BEAT.

SECTION V - BEALTH BALARD DATA

BOUTES OF EXPOSURE: EXPOSURE MAY BE BY IMPALATION AND/OR SKIN OR ETE CONTAC DEPENDING ON COMPITIONS OF USE. TO MINIMISE EXPOSURE, POLLOW RECOMMENDATION POR PROPER USE, VENTILATION, AND PERSONAL PROTECTIVE EQUIPMENT.

_____

ACUTE MEALINE SATAROS:

REFFECTS OF OVERELPOSURE; INSUTATION OF STEE, SKIN AND RESPIRATORY STATES, H CAUSE MERVOUS SYSTEM DEPRESSION. EXTREME OVEREXPOSURE MAY RESULT IN THECOMECIOCOMINESS AND POSSIBLE DEATH.

STORE AND SYMPTOMS OF OWERSTROSURE, BRADACUR, DISTINGES, MARSEL, AND LOSS OF COORDINATION ARE INDICATIONS OF EXCESSIVE EXPOSURE TO VAPORS OR SPRAY HISTS

RESURDE AND INCRING OR ROBBING SENSATION MAY INDICATE STE OR EXCESSIVE SKIN SEPOSTER.

MEDICAL CONDITIONS ADDRAVATED BY EXPOSURE MORE GENERALLY RECOGNIZED.

MODELT AND PIRST AID PROCEDURES:

BY THEALED: IF APPECTED, REMOVE FROM EXPOSURE, RESTORE BREATHING, KEEP WARM CHIEF.

IF OR REID: WASE AFFECTED AREA THOROGODILY WITH SOAP AND WATER, REMOVE CONTANTINATED CLOTELING AND LADROSE REFORE RE-DIE.

IF IN STREE PLUSS SING MITS LANGE AMOUNTS OF MATER FOR 15 MINUTES. GRI MIDI ATTENTION.

INDOCE VOMETIMG. GIVE CONSCIOUS PATIENT SEVERAL GLASSES OF MATER, SEEK MEDI ATTENTION. CHRONIC MEALTH SALANDS: NO DEGRESSIONS IN THIS PRODUCT IS AN LARC. HTP OR ORRA LISTED CARCINOGHI. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVERELPOSURE TO SOLVENIN WIT PERMANENT BRAIN AND MERVOUS STETCH DAMAGE. SECTION VI - REACTIVITY DATA STABILITY: STABLE. CONDITIONS TO AVOIDA NOME KNOWN. INCOMPATIBILITY: NORE ENGINE, ERRARDOUS DECOMPOSITION PRODUCTS: BY FIRE: CARBON DIGGIDE, CARBON MONOXIDE. MAZARDONE POLINERIZATION: WILL NOT OCCUR. SECTION VII - SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCE OF IGNITION, VENTILATE AND REMOVE WITH INTERT ABSORBENT. WASTE DISPOSAL METHOD: WASTE FROM THIS PRODUCT HAY BE HAZARDOUS AS DEFINED SMOKE THE RESOURCE CONSERVATION AND ERCOVERY ACT (RCHA) 40 CFR 261. MASTE MUST BE TRETED FOR IGNITABILITY TO DETROMINE THE APPLICABLE EPA MAZAR WATE FORES. BO NOT INCIDENATE. DEPRESSURIES CONTAINER. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING POLLUTION. 29757 SECTION VIII - PROTECTION IMPORNATION _____ PRECAUTIONS TO BE TAKEN IN USE: USE ONLY WITH ADEQUATE VENTILATION. AVOID BREATETHS WAFOR AND SPRAT MIST. AVOID CONTACT WITE SKIN AND STEE. WASE MAND AFTER MAINL VERTILATION: LOCAL RIBAGET PREFERABLE, GESTRAL RIBAGET ACCEPTABLE IF THE REPOSTRE TO MATERIALS IN SECTION II IS MAINTAINED SELOW APPLICABLE REPOSTRE LIMITS, REFER TO OMEA STANDARDS 1916.94, 1918.107, 1918.108.

IF STALLOWED: WEVER GIVE ANYTHING BY MOUTE TO AN UNCONSCIOUS PERSON. DO NOT

RESPIRATORY PROTECTION: IP PERSONAL REPOSTURE CAMBOT BE CONTROLLED BELOW APPLICABLE LIMITS BY VEHTLLATION, WEAR A PROPERLY PITTED ORGANIC VAPOR/ PARTICULATE RESPIRATOR APPROVED BY HIGSE/MERA FOR PROTECTION AGAINST NATERI IN SECTION IX-

PROTECTIVE GLOVER: MOME REQUIRED FOR MORMAL APPLICATION OF ARROSOL PRODUCTS
WHERE RIGHTMAL SEXIF CONTACT IS EXPECTED. FOR LONG OR REPEATED CONTACT, WEAR
CHORGICAL RESISTANT GLOVES.

SECTION IN - PRECAUTIONS

-----

DOL STORAGE CATEGORY: 1A

PRECAUTIONS TO BE TAKEN IN MANDLING AND STORING: KEEP ANAT PRON HEAT, SPARK
AND OPEN FLAME, VAPORS WILL ACCOUNTABLE READILY AND MAY IGNITE EXPLOSIVELY.

DURING USE AND UNTIL ALL VAPORS ARE GONE: KEEP AREA VERTILATED - DO NOT SHO EXTINGUISE ALL PLANES, PILOT LIGHTS, AND REATERS - TURN OFF STOVES, ELECTRI TOOLS AND APPLIANCES. AND ART OTHER SOURCES OF IGNITION.

COMMULT WITH CODE. THE APPROVED BONDING AND GROUNDING PROCEDURES.

CONTENTS WIDER PRESSURE. DO NOT PUNCTURE, INCIDENTE, OR EXPOSE TO TEMPERAT
ABOVE 128 F. EEAT FROM SUBLIGHT, RADIATORS, STOVES, BOT MATER, AND OTHER RE
SOURCES COULD CAUSE CONTAINER TO BURST. DO NOT TAKE INTERNALLY. KEEP OUT OF
REACH OF CHILDREN.

OTHER PERCAPTIONS: INTERTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND IMMALING THE CONTENTS CAN BE RANKFUL OR PATAL.

SECTION X - OTHER REGULATORY INFORMATION:

SARA 313 (48 CPR 372.65C) SUPPLIER NOTIFICATION:

CAS NO. CHRAICAL/COMPOSID % NY % ELEMENT

SO INGREDIENTS IN THIS PRODUCT ARE SUBJECT TO SARA 313 (40 CFR 372.45C) SEPPLIER MOTIFICATION.

20757

CALIFORNIA PROPOSITION 65:

NAMEDING: THIS PRODUCT CONTAINS CHEMICALS ENGINE TO THE STATE OF CALIFORNIA T CAUSE CANCER AND RIFTE DEFECTS OR OTHER REPRODUCTIVE HAMM.

THEA CERTIFICATION: ALL CEMBECALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING, ON THE THEA INVENTORY.

THE ABOVE INFORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY PORMULATED, AND SASED ON THE INFORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR OF ADDITIVES TO THIS PRODUCT MAY SUBSTANTIALLY ALTER THE COMPOSITION AND BAXAR OF THE PRODUCT, SINCE COMUTIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH USE OF THIS IMPORMATION.

Ø 002

# MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

DBK

MSDS NUMBER

: 6020CR

CORPORATE NUMBER

: DU000276

Revision . Date

: 21-Sep-92

Date Printed

: 06-Nov-92

MANUFACTURER/DISTRIBUTOR

Du Pont

**2**708 594 7022

1007 Market Street

Wilmington, DE 19898

PHONE NUMBERS

PRODUCT INFORMATION: 1-800-231-0998

TRANSPORT EMERGENCY : CHEMTREC: 1-800-424-9300

MEDICAL EMERGENCY

: 1-800-441-3637

CHEMICAL FAMILY

: ALIPHATIC DIBASIC ACID ESTERS

TRADE NAMES / SYNONYMS

ALIPHATIC DIBASIC ESTERS - DBE

DIBASIC ESTER

DU PONT REGISTRY NUMBER: DP53-60-5

FORMULA

: CH3OOC(CH2)n-COOCH3, n=2,3 and 4

MOLECULAR WEIGHT

: Avg. 159

TSCA INVENTORY STATUS : Reported/Included

NPCA-HHIS RATINGS

: Health: 2 Flammability: 1 Reactivity: 0

Personal Protection rating to be supplied by

user depending on use conditions.

#### COMPONENTS

Material	CAS Number	*
DINETHYL GLUTARATE	1119-40-0	55-75
DIMETHYL ADIPATE	627-93-0	10-25
DIMETHYL SUCCINATE	106-65-0	19-26
METHANOL	67-56-1	<0.2

MSDS No. 6020CR

DU PONT Material Safety Data Sheet

Page

# # PHYSICAL DATA

Boiling Point : 196 to 225 deg C (385 to 437 deg F)
Vapor Pressure : 0.2 mm Hg at 20 deg C (68 deg F)
Melting Point : ~-20 deg C (~-4.0 deg F)
Evaporation Rate : <0.1 (Butyl Acetate = 1.0)

Water Solubility: 5.3 WT % at 20 deg C (68 deg F)

: Sweet Form : Liquid Color : Colorless

Specific Gravity: 1.092 at 20 deg C (68 deg F)

Odor Threshold : 0.1 ppm 100% and 0.01 ppm 50% of the test

panel detected it.

#### HAZARDOUS REACTIVITY

Instability : Stable.

Incompatibility : Incompatible with strong oxidants, acids, and

alkalies.

Decomposition : Decomposes with heat.
Polymerisation : Polymerization will not occur.

#### FIRE AND EXPLOSION DATA

: 100 deg C (212 deg F) Flash Point

: TCC Method

Autoignition : 370 deg C (698 deg F)

Explosive Limits in Air, & by Volume

LEL : 0.9 : 8.0 UEL

## # FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air. Hazardous gases/vapors produced in fire are carbon monoxide.

#### # EXTINGUISHING MEDIA

Water Spray. Foam. Dry Chemical.

Carbon Dioxide (CO2).

## # SPECIAL FIRE FIGHTING INSTRUCTIONS

Wear self-contained breathing apparatus. Wear full protective equipment. Cool tank/container with water spray.

Keep personnel removed and upwind of fire.

MSDS No. 6020CR

# DU PONT Material Safety Data Sheet

Page

# # HEALTH HAZARD INFORMATION

The mixture may cause skin, eye and upper respiratory tract irritation.

#### ANIMAL DATA:

Inhalation 4-hour LC50: >11 mg/L in rats
Inhalation 1-hour LC50: >10.7 mg/L in rats
Oral LD50 : 8,191 mg/kg in rats
Skin absorption LD50 : >2,250 mg/kg in rabbits

Mixed dibasic esters is a mild to severe skin irritant and a moderate eye irritant, but is not a skin sensitizer in laboratory animals. Instillation of various volumes into the eye caused transient corneal opacity and corneal anaesthesia.

Upper respiratory tract irritation and transient corneal opacity were observed in animals following a single inhalation exposure. Repeated inhalation exposures caused decreased weight gain and liver weights, and generation of olfactory epithelium (nasal tissue). A single dose to animals by skin contact, ocular instillation or inhalation exposure caused a transient increase in the distance from the cornea to the anterior surface of the lens. The material does not produce genetic damage in animals or bacterial cell cultures, but was positive in one mammalian cell culture study. Animal testing indicates that this material does not have developmental or reproductive effects.

#### HUMAN HEALTH EFFECTS:

Contact with skin may cause skin irritation with discomfort or rash. Eye contact may cause eye irritation with discomfort, tearing or blurring of vision. Some individuals who have been overexposed by inhalation or skin contact have experienced blurry vision. Inhalation overexposure may cause irritation of the upper respiratory system.

The mechanism of blurred vision in humans is unknown. It is possible that some symptoms of pre-existing eye diseases could be aggravated by overexposure to this material.

# CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

# EXPOSURE LIMITS

AEL * (Du Pont): 1.5 ppm, 10 mg/m3 - 8 Hr TWA This limit is for DBE.

Page

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## DU PONT Material Safety Data Sheet

(HEALTH HAZARD INFORMATION - Continued)

TLV (ACGIH) : None Established PEL (OSHA) : None Established

# OTHER APPLICABLE EXPOSURE LIMITS METHANOL

AEL * (Du Pont): 200 ppm - 8 & 12 Hr. TWA - Skin TLV (ACGIH): 200 ppm, 262 mg/m3 - 8 Hr TWA STEL 250 ppm, 328 mg/m3 - Skin PEL (OSHA): 200 ppm, 260 mg/m3 - 8 Hr TWA STEL 250 ppm, 325 mg/m3 - Skin

* AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

## SAFETY PRECAUTIONS

Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

#### FIRST AID

#### INHALATION

If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

# EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### INGESTION

If swallowed, do not induce vomiting. Immediately give two glasses of water or activated charcoal slurry. Never give anything by mouth to an unconscious person. Call a physician.

#### NOTE:

To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

MSDS No. 6020CR

## DU PONT Material Safety Data Sheet

Page 5

## PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES AND PRECAUTIONS

Keep container tightly closed. Do not mix with strong oxidants, acids, or alkalies.

Use with sufficient ventilation to keep employee exposure to airborne concentrations below exposure limits.

# PERSONAL PROTECTIVE EQUIPMENT EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles when the possibility exists for eye contact due to splashing or spraying of material.

#### RESPIRATORS

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

## PROTECTIVE CLOTHING

Wear impervious clothing, such as gloves, apron, boots or whole bodysuit made from butyl rubber, as appropriate.

#### DISPOSAL INFORMATION

## AQUATIC TOXICITY

Dibasic Esters

96-hour LC50, fathead minnows: 18-24 mg/L 48-hour LC50, Daphnia magna: 112-150 mgL

Dimethyl Glutarate

96-hour LC50, bluegill sunfish: 30.9 mg/L

## SPILL, LEAK, OR RELEASE

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Recover undamaged and minimally contaminated material for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

Ø 007

MSDS No. 6020CR

## DU PONT Material Safety Data Sheet

Page

(DISPOSAL INFORMATION - Continued)

#### WASTE DISPOSAL

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State, and local regulations. Recover nonusable free liquid and dispose of in an approved and permitted incinerator or in an approved and permitted biological treatment system. Recover contaminated water and dispose of in an approved and permitted biological treatment system or in an approved and permitted deepwell. Remove nonusable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Do not flush to surface water or sanitary sewer system.

#### SHIPPING INFORMATION

Shipping Containers

Tank Car - 170,000 lbs Tank Truck - 42,000 lbs Steel Drums - 485 lbs

NOT REGULATED AS A HAZARDOUS MATERIAL BY THE DOT, IMO, OR IATA.

#### STORAGE CONDITIONS

Store in well ventilated area. Keep container tightly closed.

### TITLE III HAZARD CLASSIFICATIONS

Acute : Yes Chronic : No Fire : No Reactivity : No Pressure : No

## LISTS:

Extremely Hazardous Substance -No CERCLA Hazardous Substance -No Toxic Chemical -No

#### CANADIAN WHMIS CLASSIFICATION:

D2B

Page

MSDS No. 6020CR

DU PONT
Material Safety Data Sheet

# ADDITIONAL INFORMATION AND REFERENCES

The hydrogen cyanide concentration in DBE is so low as to be toxicologically insignificant when DBE is used as a solvent. However, when DBE is chemically reacted with alcohols, and methanol is recovered from that reaction and purified for reuse by distillation, concentration of highly volatile impurities such as hydrogen cyanide to toxicologically significant levels can occur in the waste stream from this process. Processors using DBE as a raw material should be aware of this potential hazard.

Responsibility for MSDS

: W. J. Brock
Du Font Chemicals
P. O. Box 80709, Chestnut Run
Wilmington, DE 19880-0709
302-999-4946

# Indicates updated section.

End of MSDS

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

		(COMPLIES WITH
SECTION 1-	CHEMICAL PRODUCT & COMPA	ANY IDENTIFICATION
Identity (As U Product Clas Emergency T Telephone No Manufacturer		Clean #7 Spray & Wipe Degreaser poer 1924 1-1900
600 Cardigan Shoreview, M	Road .	
SECTION II -	COMPOSITION/INFORMATION	ON INGREDIENTS
Hazardous Co	omponents (Specific Chemical Id	lentity):
Chemical A	Common Name(s) Dipropylene glycol methyl eth CAS #34590-94-8	ner 10 - 30
8	Sodium metasilicate CAS #6834-92-0	3-7
С	Sodium carbonate CAS #497-19-8	3 - 7
D	Surfactant (proprietary)	1 - 5
E	Surfactant (proprietary)	1 - 5
F	Surfactant (proprietary)	1 - 5
G	Propylene glycol n-butyl ether CAS #5131-66-8	
н	Water CAS #7732-18-5	60 - 100
SECTION III -	HAZARDS IDENTIFICATION	
Route(s) of Er Eye: May ( Skin: May Ingestion: I Inhalation: Signs and Sy redness and Sy	ause chemical burns on contact, cause chemical burns on contact May be harmful if swallowed. No hazardous vapors. Imptoms of Exposure: Eye	ngestion: Inhalation: X  Contact: Possible burning, tearing, Possible slippery feeling, redness,
Carcinogenici Target Organ	ty: NTP? No IA OSHA Regulated? No (s): Eyes, skin and mucous mitions Generally Aggravated by I	RC Monographs? No embranes.
	FIRST AID MEASURES	
Emergency ar For Eye Con running water eyes until med two glasses o For Skin Co contaminated unconscious p	id First Aid Procedures: itact: Immediately flush eyes vitact: Immediately flush eyes visitate. Obtain in for at least 15 minutes. Obtain in fical attention arrives. If Swallon I water, follow with orange juice ontact: Flush thoroughly with clothing before reuse. Never person.	with sanitary eye wash solution or medical attention. Continue to flush wed: Do not induce vomiting. Drink a and immediately call a physician. cool water. Remove and wash give anything by mouth to an toxicology from the trade for similar.
SECTION V - 1	THE FIGHTING MEASURES	
Flammability: Flash Point (m Flammable Ui	No Au ethod used): None nits: N. Ap. LE	utoignition Temperature: N. Ap.
Extinguishing Water?	Media N. Ap. Foam?	Water Force
Alcohol For		Water Fog? Dry Chemical?
Vaporizing Special Fire F		

Packing Group: II Date: 1/5/96 US Federal Regulations
TSCA Status: All ingredients listed.
CERCLA Reportable Quality: N. Av. SARA Title III N. Ap. N. Av. Special Fire Fighting Procedures: N. Ap.
Unusual Fire and Explosion Hazards: N. Av.
TDG Flammability Classification: Non-flammable
Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: None State Regulations
NOTICE STATE OF CALIFORNIA

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled:
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

SECTION VII - HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing:

chemicals.

Normal care in handling and storage.

Other Precautions: Keep out of reach of children. Keep from freezing.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Types): Not required
Ventilation: Local Exhaust: Not required Special: Not required
Mechanical (General): As required to keep vapor levels below
TLV & PEL, listed in Section XI. Other: Not required
Protective Gloves: Natural rubber or synthetic.
Eye Protection: Approved safety goggles or shield. Footwear: Rubber footwear.
Other Protective Clothing or Equipment: Not required

Do not contaminate food or beverages with cleaning Work/Hyglenic Practices:

3

SECTION IX - PHYSICAL/CHEMICAL CHARACT	TERISTICS
Boiling Point: Approximately 212°F (100°C) Specific Gravity (H20) = 1: 1.07 Vapor Density (Air = 1): N. Av. Evaporation Rate (Butyl Acetate = 1): N. Av. Solubility in Water: Complete Vapor Pressure (MM HG): N. Av. Melting Point: N. Av.	

SECTION X - STABILITY AND REACTIVITY Stability: Unstable: Stable: X
Conditions to Avoid: N. Ap.
Incompatibility (materials to avoid): N. Av.
Hazardous Decomposition or By-products: N. Av. Hazardous Polymerization: May occur: Will not occur: X Conditions to Avoid: N. Ap.

SECTION XI - TOXICOLOGICAL INFORMATION						
Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50	
) A	100 ppm	100 ppm	N. Av.	> 5 ml/kg	N. Av.	
1 -	(skin)	(skin)		(rat)	•	
B	None	None	C2 mg/M3	800 mg/kg (rat, oral)	N. Av.	
C	N. Ap.	N. Ap.	N. Av.	4,000 mg/kg (rat, oral)	N. Av.	
D	Ņone	None	N. Av.	1,300 mg/kg {rat, oral}	> 200 mg/l (rat, oral)	
E	None	None	N. Av.	N. Av.	N. Av.	
F ~	None	None	N. Av.	2,500 mg/kg (rat, oral)	N. Av.	
G	None	None	N. Av.	3,300 mg/kg (rat, oral)	N. Av.	
] н	None	None	N. Av.	N. Av.	N. Av.	

Teratogen, Mutagen, Reproductive Toxin Status: No Toxicologically Synergistic Products: N. Av.

SECTION XII - ECOLOGICAL INFORMATION

Ecoloxicological Information: N. Av. Chemical Fale Information: N. Av.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of spilled material in accordance with local, state and lederal regulations. Waste from normal cleaning procedures may be sewered, depending on the materials and/or contaminates being cleaned as well as state, federal and local sewer commission regulations.
RCRA Hazard Class: DOO2, characteristic corrosive.

SECTION XIV - TRANSPORT INFORMATION

Shipping Classification: 8, corrosive liquid, N.O.S. (Containing sodium metasilicate) - UN Number: 1760

SECTION XV - PREPARATION DATA

Prepared By: Mark Levitt Telephone Number: 612-481-1900

SECTION XVI - REGULATORY INFORMATION

Section 302 Extremely Hazardous Chemicals: None

Section 311/312 Hazard Category: Immediate health, chronic health Section 313 Toxic Chemic als: None

Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product.

International Regulations

WHMIS Controlled Product Hazard Class:

SECTION XVII - OTHER INFORMATION

None

N. Ap. - Not Applicable; N.Av. - Not Available.

# NFPA SYSTEM

_2_ A. Health Hazard

0 A. Fire Hazard

0 A. Reactivity Hazard

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER NO WARRANTY IS EXPRESSED ON IMPLED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. IMPUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES. USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.



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# DOW CORNING(R) 340 HEAT SINK COMPOUND

# 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Dow Coming Corporation South Saginary Road Midland, Michigan 48686 24 Hour Emergency Telephone: (517) 496-5900 Customer Service: (517) 496-6000 Product Disposal Information: (517) 496-6315

CHEMTREC: (800) 424-9300

MSDS No.: 01015443

Revision Date: 2000/05/31

Generic Description: Silicone compound Physical Form: Paste

Color: White Odor: Odorless

NFPA Profile: Health 0 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

#### 2. OSHA HAZARDOUS COMPONENTS

None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard.

#### 3. EFFECTS OF OVEREXPOSURE

**Acute Effects** 

Eye: Direct contact may cause temporary redness and discomfort.

Skin: No significant irritation expected from a single short-term exposure.

Inhalation: No significant effects expected from a single short-term exposure.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: No known applicable information.

Inhalation: No known applicable information.

Orat No known applicable information.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.



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# DOW CORNING(R) 340 HEAT SINK COMPOUND

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

## 4. FIRST AID MEASURES

Eye:

Immediately flush with water.

Skin:

No first aid should be needed.

Inhalation:

No first aid should be needed.

Oral:

No first aid should be needed.

Comments:

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

Flash Point

Not applicable - Solid

Autoignition

Temperature:

Not determined.

Flammability _imits in Air. Not determined.

Extinguishing Media:

On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire Fighting Measures:

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed

containers cool.

Unusual Fire Hazards:

None.

#### Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyds.

# 6. ACCIDENTAL RELEASE MEASURES



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# DOW CORNING(R) 340 HEAT SINK COMPOUND

Containment/Clean up:

Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call Dow Corning Corporation, (517) 496-5900, if additional ir formation is required.

## 7. HANDLING AND STORAGE

Use with adequate ventilation. Avoid eye contact.

Use reasonable care and store away from oxidizing materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Component Exposure Limits

There are no components with workplace exposure limits.

#### **Engineering Controls**

Local Ventilation:

None should be needed.

General Ventilation:

Recommended.

#### Personal Protective Equipment for Routine Handling

Eyes:

Use proper protection - safety glasses as a minimum.

Skin:

Washing at mealtime and end of shift is adequate.

Suitable Gloves:

No special protection needed.

Inhalation:

No respiratory protection should be needed.

Suitable Respirator:

None should be needed.

#### Personal Protective Equipment for Spills

Eyes:

Use proper protection - safety glasses as a minimum.

Skin:

Washing at mealtime and end of shift is adequate.

Inhalation/Suitable

Respirator:

No respiratory protection should be needed.



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# DOW CORNING(R) 340 HEAT SINK COMPOUND

Precautionary Measures: Avoid eye contact. Use reasonable care.

Note: These precautions are for room temperature handling. Use at elevated temperature or perosol/spray applications may require added precautions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Paste

Color: White

Odor: Odorless

Specific Gravity @ 25°C: 2.0

Viscosity: Not determined.

Freezing/Melting Point: Not determined.

Eoiling Point: Not determined. Vapor Pressure @ 25°C: Not determined.

Vapor Density: Not determined.

Solubility in Water: 0 g/l

pH: Not determined.

Volatile Content: 0.00 %

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

# 10. STABILITY AND REACTIVITY

Chemical Stability:

Stable.

Hazardous

Hazardous polymerization will not occur.

Polymerization:

Conditions to Avoid:

None.

Materials to Avoid:

Oxidizing material can cause a reaction.

## 11. TOXICOLOGICAL INFORMATION

## **Acute Toxicology Data for Product**

Complete information is not yet available.

# Component Toxicology Information

Complete information is not yet available.

### Special Hazard Information on Components

No known applicable information.



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# DOW CORNING(R) 340 HEAT SINK COMPOUND

# 12. ECOLOGICAL INFORMATION

## **Environmental Fate and Distribution**

No specific information is available.

#### **Environmental Effects**

No specific information is available.

#### Fate and Effects in Waste Water Treatment Plants

No specific information is available.

**Ecotoxicity Classification Criteria** 

l	Hazard Parameters (LC50 or EC50)	<u>High</u>	Medium	Low
I	Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
ı	Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

# 13. DISPOSAL CONSIDERATIONS

#### RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

Call Dow Corning Corporate Environmental Management, (517) 496-6315, if additional Information is required.



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# DOW CORNING(R) 340 HEAT SINK COMPOUND

# 14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (ICAO)

Not subject to ICAO regulations.

Call Dow Corning Transporation, (517) 496-8577, if additional information is required.

# 15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status:

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

# **EPA SARA Title III Chemical Listings**

Section 302 Extremely Hazardous Substances:

None.

Section 304 CERCLA Hazardous Substances:

CAS Number

Wt %

Component Name

1314-13-2

69.0

Zinc

Section 312 Hazard Class:

Acute: No

Chronic: No

Fire: No

FRE. IVO

Pressure: No

Reactive: No

Section 313 Toxic Chemicals:

CAS Number

Wt %

Component Name

1314-13-2

69.0

ZINC (FUME OR DUST)

# Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking



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# DOW CORNING(R) 340 HEAT SINK COMPOUND

Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

Massachuseits

CAS Numbe:

Wt %

Component Name

1314-13-2

> 60.0

ZINC OXIDE FUME

New Jersey

CAS Numbe:

Wt %

Component Name

1314-13-2

> 60.0

Zinc oxide

63148-62-9 30.0 - 60.0

Polydimethylsiloxane

Pennsylvania

CAS Number

Wt %

Component Name

1314-13-2

> 60.0

Zinc oxide (ZnO)

63148-62-9

30.0 - 60.0

Polydimethylsiloxane

## 16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

(R) indicates Registered Trademark

Rac 8/16 Sep

Tmc # 1162943



# DOW CORNING CORPORATION Material Safety Data Sheet

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# DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Dow Coming Corporation South Sagins w Road Midland, Midland 48686

24 Hour Emergency Telephone: (517) 496-5900

Customer Service: (517) 496-6000 Product Disposal Information: (517) 496-6315

CHEMTREC: (800) 424-9300

MSDS No.: 01903128

Revision Date: 2000/02/07

Generic Description: Inorganic compound

Physical Form: Grease

Color: Translucent white

Odor: Some odor

NFPA Profile: Health 0 Flammability 1 Instability/Reactivity 0

Note: NFPA =: National Fire Protection Association

## 2. OSHA HAZARDOUS COMPONENTS

None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard.

# 3. EFFECTS OF OVEREXPOSURE

Acute Effects

Eye:

Direct contact may cause temporary redness and discomfort.

Skin;

No significant irritation expected from a single short-term exposure.

Inhalation:

No significant effects expected from a single short-term exposure.

Orat:

Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin:

No known applicable information.

Inhalation:

No known applicable information.

Orat

No known applicable information.

Signs and Symptoms of Overexposure

No knowr applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.



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# DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

# 4. FIRST AID MEASURES

Eye:

Immediately flush with water.

Skin:

No first aid should be needed.

inhalation:

No first aid should be needed.

Oral:

No first aid should be needed.

Comments:

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

Flash Point:

212 °F / 100 °C Closed Cup

**Autoignition** 

Not determined.

Temperature:

Flammability Limits in Air: Not determined.

Extinguishing Media:

On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire Fighting Measures:

Self-contained breathing apparatus and protective clothing should be worn in fighting

large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed

containers cool.

Unusual Fire Hazards:

None.

# Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

# 6. ACCIDENTAL RELEASE MEASURES



Page: 3/7

# DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

Containment/Clean up:

Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Local, state, and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call Dow Corning Corporation, (517) 496-5900, if additional information is required.

#### 7. HANDLING AND STORAGE

Use with adecuate ventilation. None. Avoid eye contact.

Use reasonable care and store away from oxidizing materials.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Component Exposure Limits**

There are no components with workplace exposure limits.

#### **Engineering Controls**

Local Ventilation:

None should be needed.

General Venti ation:

Recommended.

# Personal Protective Equipment for Routine Handling

Eyes:

Use proper protection - safety glasses as a minimum.

Skin:

Washing at mealtime and end of shift is adequate.

Suitable Gloves:

No special protection needed.

Inhalation:

No respiratory protection should be needed.

Suitable Respirator:

None should be needed.

#### Personal Protective Equipment for Spills

Eyes:

Use proper protection - safety glasses as a minimum.

Skin:

Washing at mealtime and end of shift is adequate.

Inhalation/Suitable

Respirator:

No respiratory protection should be needed.

Precautionary Measures: Avoid eye contact. Use reasonable care.



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# DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

Comments:

None,

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Grease

Color: Translucent white

Odor: Some odor

Specific Gravity @ 25°C: > 1

Viscosity: Not applicable.

Freezing/Melting Point: Not determined.

Boiling Point: Not determined.

Vapor Pressure @ 25°C: Not determined.

Vapor Density: Not determined. Solubility in Water: Not determined. pH: Not determined.

Volztile Content: Not determined.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Coming before writing specifications.

#### 10. STABILITY AND REACTIVITY

Chemical Stability:

Stable.

Hazardous

Hazardous polymerization will not occur.

Polymerization:

Conditions to Avoid:

None.

Materials to Avoid:

Oxidizing material can cause a reaction.

## 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicology Data for Product**

Complete information is not yet available.

#### Component Toxicology Information

No known applicable information.

#### Special Hazard Information on Components

No known applicable information.



# DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

Page: 5/7

# 12. ECOLOGICAL INFORMATION

## **Environmental Fate and Distribution**

No specific information is available.

## **Environmental Effects**

No specific information is available.

#### Fate and Effects in Waste Water Treatment Plants

No specific information is available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	<u>Medium</u>	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terres rial Toxicity	<=100	>100 and <= 2000	, <b>&gt;</b> 2000

This table is adapted from "Environmental Toxicology and Risk Assessment". ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

## 13. DISPOSAL CONSIDERATIONS

### RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

Call Dow Corning Corporate Environmental Management, (517) 496-6315, if additional information is required.

# 14. TRANSPORT INFORMATION

### **DOT Road Shipment Information (49 CFR 172.101)**

Not subject to DOT.

### Ocean Shipment (IMDG)

Not subject to IMDG code.



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# DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

Air Shipment (ICAO)

Not subject to ICAO regulations.

Call Dow Corring Transporation, (517) 496-8577, if additional information is required.

# 15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status:

All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory of Chemical Substances.

#### **EPA SARA Title III Chemical Listings**

Section 302 Extremely Hazardous Substances:

None.

Section 304 CERCLA Hazardous Substances:

None.

# Section 312 Hazard Class:

Acute: No Chronic: No Fire: No

Pressure: No Reactive: No

#### Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

#### Supplemental State Compliance Information

#### California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

### Massachusetts

CAS Numbe:

Wt %

Component Name

7631-86-9

7.0 - 13.0 SILICA, AMORPHOUS

**New Jersey** 



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# DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

CAS Number	Wt %	Component Name
68037-74-1 7631-86-9 70131-67-8	> 60.0 7.0 - 13.0 5.0 - 10.0	Dimethyl, methyl silicone resin SILICA, AMORPHOUS FUMED Dimethyl siloxane, hydroxy-terminated
Pennsylvania		*
CAS Numbe	Wt %	Component Name
68037-74-1 7631-86-9 70131-67-8	> 60.0 7.0 - 13.0 5.0 - 10.0	Dimethyl, methyl silicone resin Silica Dimethyl siloxane, hydroxy-terminated

# 16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

(R) indicates Registered Trademark

# **DOW CORNING 3140**

(SEE RTV)

UNIVERSAL PIRE AND EXPLOSION MAXABLE

Replace from heat, electrical equipment, sparks, and open flame.

Application to hot surfaces requires special precautions. During energency conditions overexposure to decomposition products may cause

a health hexard. Symptons may not be immediately apparent. Obtain

Closed containers may emplode when exposed to extreme heat.

· Rec Jp 9/9/99 Used by EJH 15 Mold release

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

78597 Waste must be tested for ignitability to determine the applicable EFA MATERIAL SAPETY DATA SEERT hazardous waste numbers. 8.29753 Do not incinerate. Depressurise container. Dispose of in accordance 81 68 with Federal, State, and Local regulations regarding pollution. MANUFACTURER'S MANUE EMERGENCY TELEPHONE NO. Section VIII -- PROTECTION IMPORMATION Mfd. for GRAINGER by Specialty Div. (216) 292-7400 31500 Solos Boad PRECAUTIONS TO BE TAKEN IN HER Use only with adequate ventilation. Avoid breathing vapor and spray Solon, DE 44119 mist. Avoid contact with skin and eyes. Wash hands after using. DATE OF PREPARATION IMPORMATION TELEPHONE NO. 07-729-94 (800) 240-0248 Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure Section I -- PRODUCT IDENTIFICATION limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108. RESPIRATORY PROTECTION PRODUCT NUMBER If personal exposure cannot be controlled below applicable limits by 32W757 ventilation, wear a properly fitted organic vapor/particulate respirator approved by MIOSH/MSHA for protection against materials in PRODUCT 100 24757-B T.F.B. DRY LUSS Section II. PRODUCT CLASS PROTECTIVE GLOVES Aerosol Lebricant Mone required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical Section II -- WARREDOUS INGREDIENTS resistant gloves. 3 WGB 201 2 WT ACGIN OSHA ETE PROTECTION CAS TO TLV PEL V. 9 Wear safety spectacles with unperforated sideshields. % by MI 760.00 Section II -- PRECAUTIONS 12 1000 PPM _____ 74-98-6 760.00 2-Methylpropene 15 Mot Established DOL STORAGE CATEGORY 75-26-5 Septeme 50.00 PRECAUTIONS TO BE TAKEN IN MANDLING AND STORING 142-12-5 STEL 500 500 PPM Keep away from heat, sparks, and open flame. Vapors will accumulate 2-Propanol 11 400 400 PPM 33.00 readily and may ignite emplosively. 67-63-8 STEL 500 500 PPM During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn Section III -- PHYSICAL DATA off stoves, electric tools and appliances, and any other sources of ionition. Consult MFPA Code. Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to PRODUCT WEIGHT -- 5.44 lb./gal. EVAPORATION RATE -- Faster than Sther SPECIFIC GRAVITT -- 0.66 VAPOR DEMSITY -- Heavier than Air temperature above 1207. Heat from sunlight, radiators, stoves, bot BOTLING POINT -- <0 -212 F MELTING POINT -- N.A. water, and other heat sources could cause container to burst. Do not SOLUBILITY IN WATER -- M.A. WOLATILE WOLIES -- 99 9 take internally. Keep out of the reach of children. **WOLATILE WRIGHT -- 98.11 % (less Federally Exempt Solvents)** OTHER PRECAUTIONS max -- 3 4 8 Intentional miguse by deliberately concentrating and inhaling the contents can be harmful or fatal. Section IV -- FIRE AND EXPLOSION MARAND DATA FLARE POINT LEL UEL Propellant < 0 F 1.1 12.7 The above information pertains to this product as currently formulated, PETTHONT BETTE SHITTA Carbon Diomide, Dry Chemical, Youn

and is based on the information evailable at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

medical attention. SPECIAL FIRE FIGHTING PROCEDURES Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog mozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion When exposed to extreme heat. Section V -- MEALTH MARAED DATA BOUTES OF BYDOSTER Exposure may be by IMMALATION and/or SKIN or ETR contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment. ACUTE Soulth Easards EFFECTS OF OVERELPOSURE Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. RIGHS AND SYMPTOMS OF OVEREXPOSURE Meadache, dirriness, nauses, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure. MEDICAL CONDITIONS AGGRAVATED ST EXPOSURE Mone generally recognized. EDITEGRACY AND FIRST AID PROCEDURES If IMMALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wesk effected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If in ETES; Flush eyes with large ascunts of water for 15 minutes. Get medical attention. If SMALLOWED: Mover give enything by mouth to an unconscious person. DO NOT INDOCE VOLUTING. Give several glasses of water. Seek medical attention. CHRONIC Beelth Maxards No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver and urinary systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system desage. Section VI -- BEACTIVITY DATA STABILITY -- Stable COMDITIONS TO AVOID Hone known. INCOMPATIBILITY Home known. MAIABDOUS DECOMPOSITION PRODUCTS By fire: Carbon Dioxide, Carbon Honoxide MANAGED POLITICATION Will not occur Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAXES IN CASE SATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert

_____

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource

Conservation and Recovery Act (RCRA) 40 CFR 261.

When shipment is complete, retain for dealy Marmat audit.

GRAINGER SEIPPING INFORMATION

STOCK #

£ 2W757

MEDS .

1 78597

FREIGHT CODE

1 0800

DOT PROPER SHIP MANE : CONSUMER COMMODITY, ORM-D

: 20 LB. & UNDER REQUIRES 200 LB. BSC/32 ECT,

21 LB. & OVER REQUIRES 275 LB. BSC/44 ECT.

MATARDOUS CLASS FORMER :

DE ID 6

PACKING GROUP

SHIPPING LABEL : ORM-D

LIMITED QUANTITY : 3

CARTON INSTRUCTIONS : REPACK IN GRAINGER & CARTON

RICEPTION

DOT/UPS EXEMPTION NO. 1

COMMENTS 1

: MAIARDOUS MATERIAL. DO NOT SHIP AIR!!

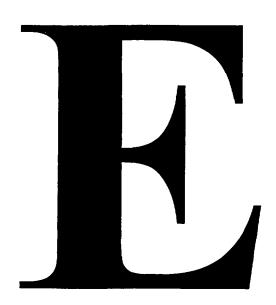
CONSTRUCTS 2

SEXPPING PAPERS 2 AUTOMATED BILL OF LADING REQUIRED FOR TRUCK SHIPMENTS.

PLACARD OFFERED ? THE ( ) NO ( ) PLEASE MARK ONE

EEG TO ACCOMPANT SELENCENT





MOR 000733

Rec. & 4/21/01

#### MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER: GLYPTAL, INC.

305 EASTERN AVE

CHELSEA, MA 02150 TELEPHONE: 617-884-6918

PRODUCT CLASS: AIR DRY ENAMEL CODE IDENTIFICATION: 1201

TRADE NAME: GLYPTAL

HMIS 2 3 0

SECTION II - HAZARDOUS INGREDIENTS

100

INGREDIENT

PERCENT

ACGIH TLV OSHA PEL PPM

BY WEIGHT

mg/cu.m. PPM

XYI FNF

34.5 CAS NUMBER 1330-20-7

100

mg/cu.m.

HMIS HEALTH=1 FLAMMABILITY=3 REACTIVITY=0

XYLOL

VM&P NAPTHA

300

CAS NUMBER 8030-30-6 HMIS HEALTH=2 FLAMMABILITY=3 REACTIVITY=0

ALIPHATIC HYDROCARBON

STODDARD SOLVENT

CAS NUMBER 64741-41-9 HMIS HEALTH=2 FLAMMABILITY=2 REACTIVITY=0

HYDROCARBON MIXTURE

IRON OXIDE

CAS NUMBER 1309-382

HMIS HEALTH=0 FLAMMABILITY=1 REACTIVITY=1

FERRIC OXIDE

HYDRATED MAGNESIUM SILICATE 16.9 20

CAS NUMBER 14807-96-6

HMIS HEALTH=2 FLAMMABILITY=0 REACTIVITY=0

TALC

Remaining 34.7 % is a non-hazardous alkyd resin.

VMRP (CAS# 8030-30-6). AGENCY OSHA.TYPE STEL. EXPOSURE LIMIT 400 PPM

N/A means NOT AVAILABLE N/EST MEANS NOT ESTABLISHED

NOT EST. means NOT ESTABLISHED

NOT EST, means NOT ESTABLISHED

N/A MEANS NOT AVAILABLE NOT EST MEANS NOT ESTABLISHED

SECTION III - PHYSICAL DATA

BOILING RANGE: 250.0 TO 345.0 F

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 56.5

VOC (less water): 3.98 LBS/GAL

WEIGHT PER GALLON: 9.91 POUNDS

V.O.C. IS DETERMINED PER EPA REFERENCE METHOD 24 USING ASTM PROCEDURES D2369

D1475 AND D3960.

VAPOR PRESSURE: 5.79 MM/HG

MELTING POINT: NOT APPLICABLE

SOLUBILITY IN WATER: NEGLIGIBLE

APPEARANCE AND ODOR: RED LIQUID WITH PAINT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DSHA CATEGORY: FLAMMABLE LIQUID

FLASH POINT: 72 F PENSKY MARTIN

LEL: 1.0 UEL: N/A

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical or foam

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable

Provided By Electrical Insulation Suppliers Inc.

distance along the ground to an ignition source and 'flash back'. SPECIAL FIRE FIGHTING PROCEDURES:

Water may be ineffective, however, water may be used to cool closed containers that are exposed to heat. Firefighting personnel should wear self-contained breathing apparatus.

#### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: SEE SECTION II

PRIMARY ROUTE(S) OF ENTRY:

Inhalation and skin contact

EFFECTS OF OVEREXPOSURE:

Headache, nausea, dizziness, confusion, irritability.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Respiratory difficulties or preexisting skin sensitization.

CARCINOGENICITY:

None of the components of this product are reported carcinogens in A/C with  $\mbox{OSHA}$ ,  $\mbox{NTP}$ ,  $\mbox{IARC}$  and  $\mbox{NIOSH}$ .

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Administer artificial respiration or oxygen if breathing is difficult.

SKIN: Wash affected area with soap and water. Remove and launder contaminated clothing. Consult a physician if irritation persists.

EYES: Flush immediately with large amounts of water for at least 15

minutes. Take to a physician for medical treatment.

INGESTION: Call a physician immediately.

ACUTE: Skin and eye contact: Primary irritation.

CHRONIC: Xylene contained in this material has been found to cause the following effects in laboratory animals:amenia, liver abnormalities, liver and eye damage.

Pre-Exiting liver and/or kidney disorders may be aggrevated by exposure to kylene. Reports have associated repeated and prolonged occupational overexposure to kylene with permanent brain and nervous system damage.

#### SECTION VI - REACTIVITY DATA

STABILITY: NORMAL STABLE

CONDITIONS TO AVOID:

None known

INCOMPATIBILITY (Materials to avoid)

Strong acids and bases

HAZARDOUS DECOMPOSITION PRODUCTS:

BY FIRE: Normal products of incomplete combustion.

HAZARDOUS POLYMERIZATION: DOES NOT OCCUR

CONDITIONS TO AVOID:

None known

#### SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Provide adequate ventilation. Remove all possible ignition sources.

Absorb and dispose using non-sparking tools.

Eliminate all sources of ignition. Evacuate unprotected personnel. Water spray may be used. To contain run-off, cover with an absorbent material and place in containers for proper disposal. Flush area with water to remove residue.

WASTE DISPOSAL METHOD:

Dispose in accordance with local applicable regulations.

Disposal of using an approved incineration process or in accordance with local, state, and federal regulations regarding health and pollution.

#### SECTION VIII - SPECIAL PROTECTION INFORMATION

#### RESPIRATORY PROTECTION:

In outdoor or open areas use Bureau of Mines approved mechanical filter respirator to remove solid airborne particulates of overspray. Indoors, where ventilation is inadequate. use Bureau of Mines

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approved chemical-mechanical respirators designed to remove both particulate and vapor.

**VENTILATION:** 

PROTECTIVE GLOVES:

Recommended if skin contact is likely.

EYE PROTECTION:

Chemical splash goggles recommended if potential for splash or eye contact is likely.

OTHER PROTECTIVE EQUIPMENT:

Recommended as needed to avoid contact.

#### SECTION IX . SPECIAL PRECAUTIONS

- PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING:

Store in a cool dry place away from heat, sparks and open flame. Keep containers closed and upright to prevent leakage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquid storeroom or cabinet. Metal containers should be grounded when transferring material from one container to another. Do not reuse product container for any purpose.

OTHER PRECAUTIONS:

PREPARED BY: TECHNICAL STAFF REFERENCE DATE: JUNE 1997

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION ABOVE.

TO WHOM IT MAY CONCERN: EFFECTIVE JAN 1, 1989, WE ARE REQUIRED BY SARA TIT LE III SECTION 313 OF THE RIGHT TO KNOW LEGISLATION, TO INFORM YOU OF THE PERCENTAGE OF ANY INGREDIENT IN A PRODUCT WHICH IS IN THE 313 LIST OR AS AN LISTING AS A COMPONENT OF A MATERIAL WHICH IS IN A CATEGORY OF CHEMICAL LIST.

PRODUCT: 1201 GLYPTAL

34.5% XYLENE (CAS NUMBER 1330-20-7)

IF YOU WILL MULTIPLY YOUR TOTAL PURCHASES FROM US AS WELL AS FROM OTHER SU PPLIERS BY THE PERCENTAGE OF EACH INGREDIENT FOUND IN EACH PRODUCT AND IF THE TOTAL QUANTITY EXCEEDS THE REPORTABLE QUANTITY FOR THAT INGREDIENT YOU ARE REQUIRED TO FILE FORM R REPORTS.

Provided By Electrical Insulation Suppliers Inc.

EMT SON & CUMING, INC. 77 AAGON COURT WDBURN, MASSACHUSETTS 01888

Ĵ.

OCT 2 6 1995 IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT,

THE MUREY CORP. INTERNATIONAL 202/400 THE MUREY CORP. INTERNATIONAL: 202/483-7616(COLLECT)

#### SECTION 1 IDENTIFICATION

PRODUCT NAME: ECCOBOND A-401-37

General Chemical Description: Epoxy Adhesive

#### SECTION 2 INGREDIENTS

Exposure Guidelines Components % by Weight OSHA PEL ACGIH TLV

Pigments Curing Agents Modifiers

Total of the above: < 11 NA NA 80-90% NF NE Epoxy Resin Amorphous Fumed Silica < 5% 6 mg/m3 10 mg/m3

SECTION 3 PHYSICAL DATA

Poiling Point (Degree °F): ND Vapor Pressure (mm Hg @ 25°C): < 1 Percent Volatiles by Weight: Negligible

Specific Gravity (water = 1): 1.20

Solubility in Water: ND

Vapor Density: NO

Appearance and Odor: Black liquid

#### SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Degree °F): > 200

Flammable Limits: Not Established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

MOR 000737

#### Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Containers exposed to elevated temperatures for extended periods of time may result in spontaneous exothermic polymerization of material, possibly resulting in violent rupturing of sealed containers.

PRINTED: 10/23/95

#### ECCOBOND A-401-37

#### Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

#### SECTION 5 REACTIVITY DATA

#### Product Stability:

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

#### Incompatibility:

Incompatible with strong oxidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

#### Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion. Prolonged exposure to elevated temperatures may cause uncontrolled exothermic reactions resulting in decomposition and charring of the material. Fumes and vapors from the thermal and chemical decomposition may vary widely in composition and toxicity.

#### Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

#### SECTION & RELEASE RESPONSE DATA

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

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#### ECCOBOND A-401-37

#### _arge Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

#### SECTION 7 HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to to use.

#### Personal Protection:

This product can cause eye irritation. Prevent eye contact through the use of chemical safety glasses, splash-proof chemical goggles, or face shield. This product can cause skin irritation and may cause allergic skin reactions. Wear appropriate protective gloves. If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to prevent skin contact and contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower should be available.

#### Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

MOR 000739

#### ECCOBOND A-401-37

#### SECTION 8 HEALTH DATA

Routes of Exposure:

Skin and eye contact, inhalation of vapors.

Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin and/or eye disorders.

#### Eye Contact:

Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

#### Skin Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities.

#### Inhalation:

Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely, due to the low volatility of this product.

#### ingestion:

Harmful if swallowed.

#### Chronic Health Effects:

Although the significance is unknown, the DGEBA epoxy resin in this product has been shown to be mutagenic in some microbial tests, but has failed to show mutagenicity in others. Chromosomal aberrations were observed in cultured rat liver cells. Two-year bioassays on mice exposed by the dermal route to DGEBA resins yielded only very limited evidence of weak carcinogenicity. Based on this and other evidence, the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

#### SECTION 9 FIRST AID PROCEDURES:

#### Eye Contact:

Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

#### Skin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

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#### ECCOBOND A-401-37

### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

#### Ingestion:

Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate attention.

#### SECTION 10 ADDITIONAL INFORMATION

#### TSCA Status:

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

#### SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

#### Special Notes:

Date Prepared: 9/27/93 Document No.: 167250

Revision Information: Trade name change

Supersedes: 3/12/90

Prepared by: David Haas

Abbreviations: NA = Not Applicable NE = Not Established ND = Not Determined

ppm = Parts per Million mg/m3 = Milligrams Per Cubic Meter C = Ceiling Concentration STEL = Short Term Exposure Limit

MOR 000741

SAFETY INFORMATION: (617)861-9600 ADDITIONAL MSDS: (617)828-3300

6600

PRINTED : 10/23/95



EMERSON AND CUMING, INC. A .CE CO. 77 DRAGON COURT, WOBURN, MA 01888 EMERGENCY/SAFETY INFORMATION: (617)935-4850

OR: (617)938-8630

ADDITIONAL MSDS:(617)828-3300

DOCUMENT NO.: 151745

1 - 17.

PRODUCT NAME: ECCOGEL 1265 Block, Part A

General Chemical Description: Epoxy Adhesive

Maximum Exposure Value (ppm) (8 hour time-weighted average)

Hazardous Ingredients % by Weight Flash Point (°F) OSHA PEL

ACGIH TLV

Epichlorohydrin

(CAS #: 106-89-8)* <

< 5ppm

105

5 ppm

2 ppm

* A suspected carcinogen

Non-hazardous Ingredients

% by Weight

B. _henot A/Epichtorohydrin-based epoxy resin, pigments

100

Boiling Point (°F): > 500°F

Vapor Pressure at 25°C: < 1 mm Hg Volatiles (% by weight): Negligible

A consumer and Odens Objects Consider

Appearance and Odor: Black liquid

Specific Gravity (water=1): 1.20

Solubility in water: Negligible

Vapor Density: Not Determined

MOR 000742

PRINTED: 05/16/91



#### ECCOGEL 1265 Black, Part A

· · ·----- DATA----- SECTION IV-FIRE AND EXPLOSION HAZARD DATA---- -----

Flash Point (°F): 390 (Tag Closed Cup: ASTM D56)

Flammable Limits: Not Established

Extinguishing Media: Carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazards: Toxic vapors may be evolved upon exposure to heat or open flame.

Special Firefighting Procedures: Firefighters should wear self-contained breathing apparatus.

Product Stability: Product is stable; hazardous polymerization will not occur.

Incompatibilities: strong oxidizers, amines, amides, strong Lewis or mineral acids, thiosulfates, carboxytic acids, atcohol, mercaptans. Reaction with curing agents is exothermic; smoke or toxic fumes may be evolved if heat of reaction becomes excessive due to high curing temperature or curing of targe masses of material.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, oxides of nitrogen.

Colitions to avoid: Storage in open containers, intense heat or open flame, uncontrolled mixing with (or exposure to) incompatible substances (above)

MOR 000743

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------SECTION VI-SPILL OR LEAK PROCEDURES-----

Handling Precautions: See section VIII

For small spills: Wipe up, or absorb with vermiculite or other absorbent material. Collect waste in sealed containers. Scrub area with soapy water and rinse. Prevents rinses from entering drains or other waterways. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, state, and federal regulations.

For large spills: Dike area to contain spilled material and to prevent runoff into drains, sewers, and other waterways. Shovel or pump to drum or salvage tank. Absorb residual material with sand, vermiculite, or other absorbent material. Scrape or shovel absorbed waste and absorbent into containers. Scrub area with soapy water and rinse. Prevents rinses from entering drains or other waterways. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, state, and federal regulations.

------SECTION VII-SPECIAL PRECAUTIONS-----

Personal Protection: Avoid skin and eye contact. Wear gloves and protective clothing to prevent exposure. Protective eye goggles should be worn.

Storage: Store in coot, dry place; keep removed from any heat or open flame. Keep container of fed when not in use.

Ventilation Requirements: Good general workplace ventilation is recommended. Flexible ductwork should extend to areas of high concentration to prevent local buildup of vapor. Provide special ventilation at elevated temperatures.

Flammability/ Explosion Precautions: Keep away from intense heat, open flames.

MOR 000744

PAGE 3

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ECCOGEL 1265 Black, Part A

-----SECTION VIII-HEALTH HAZARD DATA---------

Effects of Acute Overexposure

Emergency First Aid Procedures

Inhalation

Vapors at excessively high temperatures may produce irritation of nose and throat Remove to fresh air. Give artificial respiration if not breathing. Give oxygen if breathing difficult. Get immediate medical attention.

Eye contact

Irritation upon direct contact

Immediately flush eyes with water for 15 minutes; get medical attention

Skin contact

Irritation upon direct contact.

Pronged exposure may result in kin sensitization

Remove contaminated clothing wash affected area with water.

Ingestion

Harmful if swallowed

Ditute with targe quantities water; induce vomiting only if victim is conscious and alert. Get immediate medical attention.

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ECCOGEL 1265 Black, Part A

Effects of Chronic Overexposure:

It is very untikely that normal work operations with this product could produce atmospheric epichlorohydrin concentrations approaching the OSHA limit. Nevertheless, you should be aware that ECH has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. An analysis of all the evidence to date (through 1979) in an ongoing epidemiology study of ECH workers has been reported to show "weak" evidence that exposure to ECH poses a cancer risk to humans.

MOR 000746

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EMERSON AND CUMING, INC. 4 GRACE CO. // DRAGON COURT. MOBURN. MA 01888

EMERGENCY/SAFETY INFORMATION: (617)935-4850

OR: (617)938-8630

ADDITIONAL MSDS: (617)828-3300

DATE PREPARED: 7/19/88

SUPERCEDES: 8/10/84 DOCUMENT NO.: 151739

PRODUCT NAME: ECCOGEL 1265 Part B

Beneral Chemical Description: Aliphatic Amine blend

Percent

Maximum Exposure Limits

(8 Hour Time-Weighted Average)

by Weight

OSHA PEL

ACGIH TLY

olvoxypropylenediamine

Components

100

Not Established

----- DATA-----

Boiling Point (°F): > 480

Vapor Pressure at 25°C; < 1 mm Hg

Specific Gravity (water=1): 0.98

Solubility in water: Completely miscible

Vapor Density: Heavier than air

Votatiles (% by weight): Negligible Appearance and Odor: Colorless to slightly yellow liquid, Strong Amine Odor

MOR 000747

The information contained herein is based upon data considered true and accurate. However, Grace makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation and verification. Since the use and conditions of use of this information and the material described herein are not within the control of Grace, Grace assumes no responsibility for injury to the user or third persons. The material described herein is sold only pursuant to Grace's Terms and Conditions of Sale, including those limiting warranties and remedies contained therein. It is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state or local laws and regulations.

#### ECCOGEL 1265 Part B

------ AZARD DATA-----

Flash Point (*F): 330 (Pensky-Martens Closed Cup: ASTM D93)

Flammable Limits: Not Established

Extinguishing Media: Carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazards: Toxic vapors may be evolved upon exposure to heat or open flame.

Special Firefighting Procedures: Firefighters should wear self-contained breathing apparatus.

-----SECTION V-REACTIVITY DATA-----

Product Stability: Product is stable; hazardous polymerization will not occur.

Incompatibilities: Strong oxidizers, peroxides epoxides, acids.

Hazardous decomposition products resulting from fire or uncontrolled exothermic reaction: Carbon monoxide, carbon dioxide, oxides of nitrogen.

Conditions to avoid: Storage in open containers, exposure to heat and/or open flame, un irolled mixing with (or exposure to) incompatible substances (above)

MOR 000748

#### ECCOGEL 1265 Part B

------SECTION VI-SPILL OR LEAK PROCEDURES------

Note: Protective gloves, clothing, respiratory protection and chemical splash goggles must be worn during entire clean-up procedure. Cleanup of large spills should be done in accordance with the provisions of OSHA 29CFR 1910.120 ("Hazardous Waste Operations and Emergency Response").

For small spills: Wipe up, or absorb with vermiculite or other absorbent material. Collect waste in sealed containers.

Scrub area with scapy water and rinse. Prevents rinses from entering drains or other waterways.

Spitted material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, state, and federal regulations.

For large spills: Turn on ventilation equipment to evacuate vapors from the area. Dike area to contain spilled material and to prevent runoff into drains, sewers, and other waterways.

Shovet or pump to drum or satvage tank.

Absorb residual material with sand, vermiculite, or other absorbent material.

Scrape or shovel absorbed waste and absorbent into containers.

Scrub area with scapy water and rinse. Prevents rinses from entering drains or other waterways.

Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, state, and federal regulations.

------ PRECAUTIONS------

WARNING: Corrosive Material

Personal Protection: Do not get on skin, eyes, or clothing. Wear proper protective gloves, chemical splash goggles, and clothing to prevent exposure. Remove contaminated clothing and wash before reusing. Do not ingest or swallow this material.

Storage: Store in cool, dry place; keep removed from any heat or open flame. Keep container closed when not in use.

Yentitation Requirements: Prevent breathing of vapors, mist, or spray. Use only with proper mechanical exhaust ventilation. Wear an appropriate, property fitted respirator when contaminant levels exceed the recommended exposure limits.

Flammability/ Explosion Precautions: Keep away from intense heat, open flames.

MOR 000749

#### ECCOGEL 1265 Part B

----- DATA-----SECTION VIII-HEALTH HAZARD DATA-----

WARNING: Corrosive material - contact with skin and eyes may cause burns.

Route of Exposure: Skin Contact/Absorption. Inhalation

Effects of Acute Overexposure

Emergency First Aid Procedures

Inhalation

Inhatation of vapors may cause respiratory tract irritation.

Remove to fresh air, Give oxygen if breathing difficult; give artificial respiration if not breathing; get immediate medical attention.

Eye contact

Very severe irritation upon contact; can cause permanent damage or blindness

Immediately flush eyes with water and continue flushing until medical attention is abtained

in contact

Very severe (rritation upon direct contact May cause burns and/or blistering

Prolonged exposure may result in skin sensitization

Remove contaminated clothing under shower. Wash affected area thoroughly with water. Obtain medical attention if burns result.

Ingestion

Harmful if swallowed

Ditute with targe quantities, ___ .. of water- do not induce vomiting. Get immediate medical attention.

GET MEDICAL ATTENTION IF SYMPTOMS PERSIST

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HERSON AND CUMING, INC. .. GRACE CO. 77 DRAGON COURT. WOBURN, MA 01888

EMERGENCY/SAFETY INFORMATION: (617)935-4850

OR: (617)938-8630

ADDITIONAL HSDS: (617)828-3300

DOCUMENT NO: 510131

------SECTION I - IDENTIFICATION------

PRODUCT NAME: ECCOSTRIP 93

General Chemical Description: Organic Solvent

-----SECTION II-INGREDIENTS-----

Maximum Exposure Value (pom) (8 hour time-weighted average)

Hazardous Ingredients % by Weight Flash Point (*F)

5-10

5-10

OSHA PEL ACGIH TLV

Methylene Chloride > 70 Not Applicable

500 DDM

100 ppm

(CAS #: 75-09-2) Phenol (CAS#:108-95-2)

175

5 pp#

Not Established

Formic Acid

(CAS #: 64-18-6)

122

5 ppm

5 ppm

"nn-hazardous Ingredients

% by Weight

Non-hazardous modifiers

< 10.0

-----SECTION III-PHYSICAL DATA-

Boiling Point (*F): Not Determined Vapor Pressure at 25°C: 40-50 mm Hg Volatiles (% by weight): > 70

Specific Gravity (water=1): 1.30 Solubility in water: Slightly soluble Vapor Density: Heavier than ar

Appearance and Odor: Colorless to slightly yellow liquid Sharp odor CE

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#### ECCOSTRIP 93

Flash Point (°F): Not Established

Flammable Limits: Not Established

Extinguishing Media: Carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazards: Toxic vapors may be evolved upon exposure to heat or open flame.

Special Firefighting Procedures: Firefighters should wear self-contained breathing apparatus.

Product Stability: Product is stable; hazardous polymerization will not occur.

Incompatibilities: zinc or tin metal.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, chlorine compounds. Exposure to high temperatures may generate HCL or phospene.

Conditions to avoid: Storage in open containers, exposure to heat and/or open flame, uncontrolled mixing with (or exposure to) incompatible substances (above)

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#### ECCOSTRIP 93

-----SECTION VI-SPILL OR LEAK PROCEDURES-------

Corrosive Material Note: Protective gloves, clothing, respiratory protection and chemical splash goggles must be worn during entire clean-up procedure.NIOSH-approved respirators should be worn during clean-up of large soills.

For small spills: Turn on ventilation equipment to evacuate vapors from the area. Wipe up. or absorb with vermiculite or other absorbent material.

Collect waste in sealed containers.

Scrub area with soapy water and rinse. Prevents rinses from entering drains or other waterways.

Scilled material and water rinses are classified as hazardous waste, and must be disposed of in accordance with current local, state, and federal regulations.

For large spills: Turn on ventilation equipment to evacuate vapors from the area. Dike area to contain spilled material and to prevent runoff into drains, sewers, and other waterways.

Shovel or pump to drum or salvage tank.

Absorb residual material with sand, verniculite, or other absorbent material.

Scrub area with scapy water and rinse. Prevents rinses from entering drains or other waterways.

Spilled material and water miners.

Spilled material and water rinses are classified as hazardous waste, and must be disposed of in accordance with current local state. -THE MOREY CORF disposed of in accordance with current local, state, and federal regulations.

------SECTION VII-SPECIAL PRECAUTIONS--------

WARNING:: Corrosive Material

Personal Protection: Avoid skin and eye contact. Protective gloves and clothing, and eve goggles with side shields must be worn. Avoid breathing vapors. Use only with adequate ventilation.

Storage: Store in cool, dry place; keep removed from any heat or open flame. Keep container closed when not in use. Activated mixture can cause pressure build-up if stored in sealed containers. Containers for such mixtures should be loosely covered, not tightly sealed, in such manner as to permit venting and release of pressure during storage.

Ventilation Requirements: Flexible ductwork should extend to areas of high concentration to prevent local buildup of vapor. NIOSH-approved self-contained breathing apparatus should be used in the absence of mechanical ventilation when working with large quantities of material.

Flammability/ Explosion Precautions: Keep away from intense heat, open flames.

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#### ECCOSTRIP 93

WARNING: Corrosive Material - contact with skin or eves may result in burns. Contact with eves may result in permanent damage or blindness.

Contains Phenol - toxic if Phenol is absorbed through skin

Contains Formic Acid. Toxic material - may be tatal if swallowed

Effects of Acute Overexposure

Inhalation

Vacors may cause nausea, headache, dizziness, marcosis, amaethesia .

Overexposure to high concentrations may result in loss of consciousness

Eve contact

ry severe irritation upon contact; can cause permanent damage or blindness

Skin contact

Very severe irritation upon direct contact May cause burns and/or blisterMig

Ingestion

Harmful if swallowed.

Emergency First Aid Procedures

Remove victim to fresh air. Give artificial respiration if not breathing. Give oxygen if breathing difficult. Get immediate medical attention.

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Immediately flush eyes with water and continue flushing until medical attention is abtained

Remove contaminated clothing under shower. Wash affected area thoroughly with water. Obtain medical attention if burns result.

Dilute with water. Get immediate medical attention

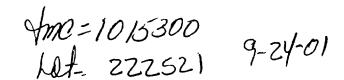
GET MEDICAL ATTENTION IF SYMPTOMS PERSIST

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### **Emerson & Cuming**

a National Starch & Chemical Company



### MATERIAL SAFETY DATA SHEET

EMERSON & CUMING 46 MANNING ROAD

BILLERICA, MASSACHUSETTS 01821

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR

ACCIDENT, NOTIFY:

CHEMTREC USA: 800-424-9300

INTERNATIONAL: 202-483-7616 (COLLECT)

**SECTION 1: IDENTIFICATION** 

Product Name:

General Chemical Description:

**CATALYST 23LV** 

Aliphatic Amine

**SECTION 2: INGREDIENTS** 

<u>Exposure G</u> % by Weight OSHA PEL

Exposure Guidelines
OSHA PEL ACGIH TLV

Hazardous Components
Polyoxypropylene Polyamine
Polyglycol Diamine

30-60% 30-60%

NE NE NE NE

**SECTION 3: PHYSICAL DATA** 

Boiling Point (°F):

>480 <0.001

Vapor Pressure (mm Hg @ 25°C): Percent Volatiles by Weight:

ND

Specific Gravity (water = 1):

1.00

Solubility in Water:

Soluble Heavier than air

Vapor Density: Appearance and Odor:

Amber liquid, strong amine odor

**SECTION 4: FIRE AND EXPLOSION HAZARD DATA** 

Flash Point (°F):

>200 (PMCC)

Flammable Limits

Not Established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions.

Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

**SECTION 5: REACTIVITY DATA** 

Printed: 7/25/01

#### CATALYST 23LV

#### **Product Stability:**

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

*Incompatibility:* Incompatible with strong oxidizers, acids, bases. Uncontrolled mixing with epoxides may result in hazardous exothermic polymerization, with possible evolution of smoke and toxic fumes.

#### Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, oxides of nitrogen, amines and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

#### Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with epoxies or exposure to incompatible substances.

#### **SECTION 6: RELEASE RESPONSE DATA**

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

#### Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

#### **SECTION 7: HANDLING PRECAUTIONS**

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

#### Personal Protection:

This product can cause eye burns. Prevent eye contact through the use of a face shield used in conjunction with either splash-proof chemical goggles or chemical safety glasses. This product can cause skin burns and may cause allergic skin responses. Components of this product may also be absorbed through the skin. Wear appropriate protective gloves, a proper chemical-resistant apron and additional impervious clothing to prevent all skin contact, contamination of clothing and possible absorption through the skin. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower must be available.

Printed: 7/25/01 Page: 2

#### CATALYST 23LV

### Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing.

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

#### **SECTION 8: HEALTH DATA**

#### Routes of Exposure:

Skin and eye contact, inhalation of vapors.

#### Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin, eye and/or respiratory disorders.

#### Eye Contact:

Contains materials corrosive to the eyes; may cause burns and possible corneal injury. Permanent impairment of vision or blindness may occur.

#### Skin Contact:

Contains materials corrosive to the skin; may cause severe burns and blistering. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities. May be harmful if absorbed through the skin.

#### Inhalation:

Vapors may cause irritation, nausea, and headaches.

#### Ingestion:

Harmful if swallowed. May cause burns to the mouth and upper gastro-intestinal tract.

#### Chronic Health Effects:

None known

#### SECTION 9: FIRST AID PROCEDURES

#### Eye Contact:

Immediately flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

#### Skin Contact:

Immediately flush the affected area of the skin with plenty of water, while removing contaminated clothing or shoes. Follow by thoroughly washing with soap and water. Avoid scrubbing, as this action could increase skin absorption and worsen the effect of chemical contact. Get immediate medical attention. Do not reuse contaminated clothing until properly cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

Printed: 7/25/01 Page: 3

#### CATALYST 23LV

#### Ingestion:

DO NOT induce vomiting. If victim is conscious and alert, dilute by giving water to drink; never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

#### SECTION 10: ADDITIONAL INFORMATION

### Product NPCA Hazardous Material Identification System (HMIS) Rating:

Health: 3

Flammability: 1

Reactivity: 0

#### TSCA Status::

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

#### Foreign Inventory Status:

Canadian DSL: All components listed or exempt European EINECS: All components listed or exempt

Japanese MITI ENCS: All components listed

Korean ECL: All components listed Australian AICS: All components listed

#### SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

#### D.O.T./IATA Information:

Polyamines, Liquid, Corrosive, N.O.S. (Polyglycoldiamines, Polyoxypropylene Polyamines); 8; UN2735; PG II

Date Prepared: Document No.: 12/31/00

**Supersedes: 12/31/98** 

600441 Prepared by: David Haas

Revision Information:

Section 2 Component listing

Website Identifier:

CAT 23LV - 600441

Abbreviations:

NA = Not Applicable NE = Not Established ND = Not Determined ppm = Parts per Million

mg/m3 = Milligrams per Cubic Meter

C = Ceiling Concentration

mppcf = Million Parts per Cubic Foot STEL = Short Term Exposure Limit f/cc = Fibers per Cubic Centimeter

SAFETY INFORMATION: (978)436-9781 ADDITIONAL MSDS: (781)828-3300

Printed: 7/25/01

Emerson & Cuming

a National Starch & Chemical Company

Black Paste to mix with patting

### **MATERIAL SAFETY DATA SHEET**

EMERSON & CUMING 46 MANNING ROAD BILLERICA, MASSACHUSETTS 01821 IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR

ACCIDENT, NOTIFY:

CHEMTREC USA: 800-424-9300

INTERNATIONAL: 202-483-7616 (COLLECT)

**SECTION 1: IDENTIFICATION** 

Product Name:

**EPOXY COLOR PASTE BLACK** 

General Chemical Description:

**Epoxy Pigment Dispersion** 

**SECTION 2: INGREDIENTS** 

**Exposure Guidelines** 

<u>Components</u> % by Weight OSHA PEL ACGIH TLV

DGEBA Epoxy Resin

50-70%

NE

NE

Carbon Black

30-50%

3.5 mg/m3

3.5 mg/m3

**SECTION 3: PHYSICAL DATA** 

Boiling Point (°F):

ND

Vapor Pressure (mm Hg @ 25°C):

Negligible

Percent Volatiles by Weight: Specific Gravity (water = 1): Negligible > 1.4

Solubility in Water:

Insoluble

Vapor Density:

Heavier than air

Appearance and Odor:

Black paste, slight odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F):

> 200

Flammable Limits

Not Established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

MOR 000759

Printed: 6/30/99

Page: 1

The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

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Decomposition and combustion products may be toxic. Reaction with curing agents is exothermic; smoke or toxic fumes may be evolved if heat of reaction becomes excessive due to high curing temperatures or curing of large masses of material. See Section 5, "Hazardous Decomposition Products".

Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

#### **SECTION 5: REACTIVITY DATA**

#### **Product Stability:**

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

#### Incompatibility:

Incompatible with strong oxidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

#### Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, nitrogen compounds, phenols, aldehydes, acids, traces of cyanides and other organic substances may be formed during combustion.

#### Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

#### **SECTION 6: RELEASE RESPONSE DATA**

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

#### Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

#### **SECTION 7: HANDLING PRECAUTIONS**

MOR 000760

Printed: 6/30/99

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

#### Personal Protection:

This product can cause eye irritation. Prevent eye contact through the use of chemical safety glasses, splash-proof chemical goggles, or face shield. This product can cause skin irritation and may cause allergic skin reactions. Wear appropriate protective gloves. If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to prevent skin contact and contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower should be available.

#### Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

#### **SECTION 8: HEALTH DATA**

#### Routes of Exposure:

Skin and eye contact, inhalation of vapors.

#### Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin and/or eye disorders.

#### Eye Contact

Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

#### Skin Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities.

### Inhalation:

Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely, due to the low volatility of this product.

Ingestion:

MOR 000761

Printed: 6/30/99

Harmful if swallowed.

#### Chronic Health Effects:

Although the significance is unknown, the DGEBA epoxy resin in this product has been shown to be mutagenic in some microbial tests, but has failed to show mutagenicity in others. Chromosomal aberrations were observed in cultured rat liver cells. Two-year bioassays on mice exposed by the dermal route to DGEBA resins yielded only very limited evidence of weak carcinogenicity. Based on this and other evidence, the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

The International Agency for Research on Cancer (IARC) has classified free carbon black as a Class 2B carcinogen, in that there is sufficient evidence for carcinogenicity in animals (based on inhalation studies), but evidence for carcinogenicty in humans is nonexistent. Exposure to free carbon black, however, is unlikely, unless the cured product is machined or ground in such a manner to evolve dusts; or in spray applications where vapors or fumes containing carbon black may become airborne, thus creating potential for inhalation exposure.

#### **SECTION 9: FIRST AID PROCEDURES**

#### Eye Contact:

Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

#### Skin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

#### Ingestion:

Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

#### **SECTION 10: ADDITIONAL INFORMATION**

#### Product NPCA Hazardous Material Identification System (HMIS) Rating:

Health: 2 Flammability: 1 Reactivity: 0

#### TSCA Status::

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

#### Foreign Inventory Status:

Canadian DSL: All components listed or exempt European EINECS: All components listed or exempt Japanese MITI ENCS: All components listed

Korean ECL: All components listed Australian AICS: All components listed

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Printed: 6/30/99

#### SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

D.O.T. Information:

Resin Compound, N.O.I. - Non-Regulated

Freight Code: 2015

Special Notes:

Date Prepared:

12/31/98

Supersedes: 2/14/97

Document No.:

510505

Prepared by: David Haas

Revision Information:

Section 10

Abbreviations:

NA = Not Applicable NE = Not Established ND = Not Determined ppm = Parts per Million

mg/m3 = Milligrams per Cubic Meter

C = Ceiling Concentration

mppcf = Million Parts per Cubic Foot STEL = Short Term Exposure Limit f/cc = Fibers per Cubic Centimeter

AFETY INFORMATION: (978)436-9781 ADDITIONAL MSDS: (781)828-3300

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Printed: 6/30/99

Emerson & Cuming Specialty Polymers Div. of National Starch and Chemical Co. 55 Hayden Ave. Lexington, Massachusetts 02173 IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, NOTIFY: CHEMTREC USA: 1-800-424-9300
INTERNATIONAL: 202/483-7616(COLLECT)

#### SECTION 1 IDENTIFICATION

PRODUCT NAME: STYCAST 2754, PART B

General Chemical Description: Aliphatic Amine Blend

#### SECTION 2 INGREDIENTS

		Exposure Guidelines	
Components	% by Weight	OSHA PEL	ACGIH TLV
Calcium Metasilicate	45 - 55%	15 ma/m3	10 mg/m3 (★)
Polyoxypropylene Polyamines	40 - 50%	NE 3M	NE
Triethanolamine	2 - 5%	3.5 თვ/თ3	ΝC
n-Aminoethylpiperazine	1 - 2%	ИE	NE

(*) Nuisance Particulate PEL/TI.V

#### SECTION 3 PHYSICAL DATA

Boiling Point (Degree °F): ND Vapor Pressure (mm Hg @ 250): Negligible Percent Volatiles by Weight: Negligible Specific Gravity (water = 1): 1.4 ~ 1.55 Solubility in Water: Partially Soluble

Vapor Density: Heavier than air

Appearance and Odor: White liquid, strong amine odor

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#### STYCAST 2754, PART B

#### SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Degree °F): >200, based on flash points of components

Flammable Limits:
Not Established

Extinguishing Media:
Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions.

Special Firefighting Procedures:
Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

#### SECTION 5 REACTIVITY DATA

Product Stability:

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

Incompatibility:

Incompatible with strong exidizers, acids, bases, epoxides

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with epoxies or exposure to incompatible substances.

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PRINTED: 05/21/97

#### STYCAST 2754, PART B

#### SECTION 6 RELEASE RESPONSE DATA

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with scapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

#### Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to severs, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent naterial to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

#### SECTION 7 HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to to use.

#### Personal Protection:

This product can cause eye burns. Prevent eye contact through the use of a face shield used in conjunction with either splash-proof chemical goggles or chemical safety glasses. This product can cause skin burns and may cause allergic skin responses. Components of this product may also be absorbed through the skin. Wear appropriate protective gloves, a proper chemical-resistant apron and additional impervious clothing to prevent all skin constact, contamination of clothing and possible absorption through the skin. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower must be available.

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PRINTED: 05/21/97 PAGE 3

### STYCAST 2754, PART B

Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tight—ly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

#### SECTION 8 HEALTH DATA

Routes of Exposure:

Skin and eye contact, inhalation of vapors.

Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin, eye and/or respiratory disorders.

#### Eye Contact:

Contains materials corrosive to the eyes; may cause burns and possible corneal injury. Permanent impairment of vision or blindness may occur.

#### Skin Contact:

Contains materials corrosive to the skin; may cause severe burns and blistering. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals. May be harmful if absorbed through the skin.

#### Inhalations

Vapors may cause irritation, nausea, and headaches.

#### Investion:

Harmful if swallowed. May cause burns to the mouth and upper gastrointestinal tract.

#### Chronic Health Effects:

Exposure to the filler material listed in Section 2 is unlikely to occur unless the product is applied in a manner which results in the generation of mists or fumes, or when machining of the cured product results in generation of dust particles.

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PRINTED: 05/21/97

#### STYCAST 2754, PART B

#### SECTION 9 FIRST AID PROCEDURES:

#### Eye Contact:

Immediately flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

#### Skin Contact:

Immediately flush the affected area of the skin with plenty of water, while removing contaminated clothing or shoes. Follow by thoroughly washing with soap and water. Avoid scrubbing, as this action could increase skin absorption and worsen the effect of chemical contact. Get inmediate medical attention. Do not reuse contaminated clothing until properly cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

#### Ingestion:

00 NOT induce vomiting. If victim is conscious and alert, dilute by giving water to drink; never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

### SECTION 10 ADDITIONAL INFORMATION

Product NPCA Hazardous Material Identification System (HMIS) Rating: Health: 3 Flammability: 1 Reactivity: 0

#### TSCA Status:

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

#### SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

Special Notes:

MOR 000768

Date Prepared: 1/19/96 Supercedes: 10/29/92 Document No.: 152119 Prepared by: David Haas

Revision Information: HMIS Rating

Abbreviations: NA = Not Applicable NE = Not Established ND = Not Determined

ppm = Parts per Million mg/m3 = Milligrams Per Cubic Meter C = Ceiling Concentration STEL = Short Term Exposure Limit

Emerson & Cuming Specialty Polymers Div. of National Starch and Chemical Co. 55 Hayden Ave. Lexington, Massachusetts 02173 IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, NOTIFY: CHEMTREC USA: 1-800-424-9300 INTERNATIONAL: 202/483-7616(COLLECT)

#### SECTION 1 IDENTIFICATION

PRODUCT NAME: STYCAST 2754, PART A

General Chemical Description: Epoxy Resin

#### SECTION 2 INGREDIENTS

		Exposure Guidelines	
Components	% by Weight	OSHA PEL	ACGIH TLV
Modifiers			
Additives			
Total of the above:	< 3%	ИA	NA
Calcium Silicate	45 - 55%	15 mg/m3	10 mg/m3 (k)
Epoxy Resin	25 - 35%	NE	NE
Aliphatic Triglyceride Ether	10 - 15%	HE	ИE
Elastomer-modified epoxy resin	5 - 10%	ΝE	NE
Aliphatic Glycidyl Ether	₹ 3%	ΉE	NE
n Butyl Glycidyl Ether	< 3%	25 ppm	25 ppm
Carbon black	<0.2%	3.5 mg/m3	3.5 mg/m3

(*) Nuisance Particulate PEL/TLV

#### SECTION 3 PHYSICAL DATA

Roiling Point (Begree °F): ND Vapor Pressure (mm Hg 0 250): Negligible Percent Volatiles by Weight: Negligible Specific Gravity (water = 1): 1.5 - 1.6 Solubility in Water: Insoluble Vapor Density: Heavier tha air Appearance and Odor: Black liquid

MOR 000769

#### STYCAST 2754, PART A

#### SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Degree °F): > 200

Flammable Limits:
Not established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions.

Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

#### SECTION 5 REACTIVITY DATA

Product Stability:

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

Incompatibility:

Incompatible with strong exidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

Nazardous Decomposition Products:

Carbon monoxide, carbon dioxide, aldehydes, isocyanates, phenols, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

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PRINTED: 05/21/97

# STYCAST 2754, PART A

Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL/TLV values. Use an appropriate, proper

ly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

# SECTION 8 HEALTH DATA

Routes of Exposure:

Skin and eye contact, inhalation of vapors.

Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin and/or eye disorders.

#### Eye Contact:

Contains materials irritating to the eyes. Symptons may include blurred vision, burning sensation and tearing.

### Skin Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitivation/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities.

# Inhalation:

Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely, due to the low volatility of this product.

#### Ingestion:

Harmful if swallowed.

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PRINTED: 05/21/97

## STYCAST 2754, PART A

# SECTION 6 RELEASE RESPONSE DATA

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

#### Large Spills:

Limit access to the immediate spill area. Shot off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer all sorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

#### SECTION 7 HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to to use.

# Personal Protection:

This product can cause eye irritation. Prevent eye contact through the use of chemical safety glasses, splash-proof chemical goggles, or face shield. This product can cause skin irritation and may cause allergic skin reactions. Wear appropriate protective gloves. If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to prevent skin contact and contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower should be available.

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# STYCAST 2754, PART A

#### Chronic Health Effects:

Although the significance is unknown, the DGEBA epoxy resin in this product has been shown to be mutagenic in some microbial tests, but has failed to show mutagenicity in others. Chromosomal aberrations were observed in cultured rat liver cells. Two-year bioassays on mice exposed by the dermal route to DGEBA resins yielded only very limited evidence of weak carcinogenicity. Based on this and other evidence, the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

Recent studies indicate that Butyl and Phenyl Glycidyl Ethers may induce mutagenic changes in laboratory animals. This has not been related to human exposures, however, good ventilation and industrial hygiene practices should be followed when handling compounds containing either BGE or PGE.

Products similar to the aliphatic gylcidyl ethers listed in Section II are reported to be mutagenic (causes genetic changes) in some laboratory animal tests.

Exposure to the filler material listed in Section 2 is unlikely to occur unless the product is applied in a manner which results in the generation of mists or fumes, or when machining of the cured product results in generation of dust particles.

The International Agency for Research on Cancer (IARC) has classified free carbon black as a Class 2B carcinogen, in that there is sufficient evidence for carcinogenicity in animals (based on inhalation studies), but evidence for carcinogenicity in humans is nonexistent. Exposure to free carbon black, however, is unlikely, unless the cured product is machined or ground in such a manner to evolve dusts; or in spray applications where vapors or fumes containing carbon black may become airborne, thus creating potential for inhalation exposure.

# SECTION 9 FIRST AID PROCEDURES:

#### Eye Contact:

Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

# Skin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

# Inhalation:

Remove victim to fresh air. Provide oxygem if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

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PRINTED: 05/21/97

# STYCAST 2754, PART A

## Ingestion:

Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate attention.

#### SECTION 10 ADDITIONAL INFORMATION

Product NPCA Hazardous Material Identification System (HMIS) Rating:

Realth: 2

Flammability: 1

Reactivity: 0

TSCA Status:

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

Special Notes:

Date Prepared: 3/11/97

Supersedes: 1/19/96

Document No.: 152115

Prepared by: David Haas

Revision Information: Carbon black warnings

Abbreviations: NA = Not Applicable NE = Not Established ND = Not Determined

ppm = Parts per Million mg/m3 = Milligrams Per Cubic Meter

C = Ceiling Concentration | STEL = Short Term Exposure Limit

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SAFETY INFORMATION: (617)402-9100

ADDITIONAL MSDS: (617)828-3300 -

PRINTED : 05/21/97

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EMFOSON & CUMING, INC. AGON COURT WOBURN, MASSACHUSETTS 01888

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SECTION 1 IDENTIFICATION

WHITE

PRODUCT NAME: STYCAST 2651MM BLACK

General Chemical Description: Epoxy Resin

## SECTION 2 INGREDIENTS

		Exposure Guidelines			
Components	% by Weight	OSHA PEL	ACGIH TLV		
Calcium Carbonate	40-50%	15 mg/m3	10 mg/m3		
Epoxy Resin	40-50%	NE	NE		
● n-Butyl Glycidyl Ether	2-5%	25 ppm	25 ppm		
Pigments	< 1%	NA	NA		

#### SECTION 3 PHYSICAL DATA

Boiling Point (Degree °F): Vapor Pressure (mm Hg @ 25°C): < 1 'ercent Volatiles by Weight: < 3 specific Gravity (water = 1): 1.60 Solubility in Water: Insoluble Vapor Density: Heavier than air Appearance and Odor: Black liquid

# SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (Degree °F): > 200

Flammable Limits: Not Established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions.

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# STYCAST 2651MM BLACK

#### Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

## SECTION 5 REACTIVITY DATA

#### Product Stability:

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

#### Incompatibility:

Incompatible with strong oxidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

# Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

#### Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

# SECTION 6 RELEASE RESPONSE DATA

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

# Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

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PRINTED: 10/23/95

## STYCAST 2651MM BLACK

## SI ION 7 HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to to use.

#### Personal Protection:

This product can cause eye irritation. Prevent eye contact through the use of chemical safety glasses, splash-proof chemical goggles, or face shield. This product can cause skin irritation and may cause allergic skin reactions. Wear appropriate protective gloves. If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to prevent skin contact and contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower should be available.

Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

# SECTION 8 HEALTH DATA

Routes of Exposure:

Skin and eye contact, inhalation of vapors.

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#### STYCAST 2651MM BLACK

Medical Conditions Aggravated by Exposure:
Exposure may aggravate preexisting skin and/or eye disorders.

#### Eye Contact:

Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

#### Skin Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities.

#### Inhalation:

Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely, due to the low volatility of this product.

#### Ingestion:

Harmful if swallowed.

#### Chronic Health Effects:

Although the significance is unknown, the DGEBA epoxy resin in this product has been shown to be mutagenic in some microbial tests, but has failed to show mutagenicity in others. Chromosomal aberrations were observed in cultured rat liver cells. Two-year bioassays on mice exposed by the dermal route to DGEBA resins yielded only very limited evidence of weak carcinogenicity. Based on this and other evidence, the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

Recent studies indicate that Butyl and Phenyl Glycidyl Ethers may induce mutagenic changes in laboratory animals. This has not been related to human exposures, however, good ventilation and industrial hygiene practices should be followed when handling compounds containing either BGE or PGE.

#### SECTION 9 FIRST AID PROCEDURES:

#### Eye Contact:

Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention,

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# STYCAST 2651MM BLACK

#### 3kin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. On not reuse contaminated clothing until properly cleaned.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

# Ingestion:

Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate attention.

## SECTION 10 ADDITIONAL INFORMATION

# TSCA Status:

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

#### SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

#### Special Notes:

Date Prepared: 11/20/92 Document No.: 150275 Supersedes: 3/29/89
Prepared by: David Haas

Revision Information: Format upgrade

Abbreviations: NA = Not Applicable NE = Not Established ND = Not Determined

ppm = Parts per Million mg/m3 = Milligrams Per Cubic Meter
C = Ceiling Concentration STEL = Short Term Exposure Limit

MOR 000779

SAFETY INFORMATION: (617)861-9600 ADDITIONAL MSDS: (617)828-3300

PRINTED: 10/23/95

# Emerson & Cuming

a National Starch & Chemical Company

# TMC# 10/161/24

# MATERIAL SAFETY DATA SH

**EMERSON & CUMING 46 MANNING ROAD** BILLERICA, MASSACHUSETTS 01821 IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE,

OR ACCIDENT, NOTIFY:

CHEMTREC USA: 800-424-9300

INTERNATIONAL: 202-483-7616 (COLLECT)

SECTION 1: IDENTIFICATION

Product Name:

STYCAST® 2651MM UNPIGMENTED

General Chemical Description:

**Epoxy Resin** 

**SECTION 2: INGREDIENTS** 

**Exposure Guidelines** 

<u>Components</u>	<u>% by Weight</u>	<u>OSHA PEL</u>	ACGIH TLV
Calcium Carbonate	45-55%	15 mg/m3 (*)	10 mg/m3
DGEBA Epoxy Resin	40-50%	NE	NE
n-Butyl Glycidyl Ether	2-5%	50 ppm	25 ppm

(*) Total dust (5 mg/m3 respirable)

**SECTION 3: PHYSICAL DATA** 

Boiling Point (°F):

ND

Vapor Pressure (mm Hg @ 25°C):

< 0.1

Percent Volatiles by Weight:

<3.0 1.50-1.65

Specific Gravity (water = 1): Solubility in Water:

Insoluble

Vapor Density:

Heavier than air

Appearance and Odor:

Off-white liquid, mild odor

**SECTION 4: FIRE AND EXPLOSION HAZARD DATA** 

Flash Point (°F):

>200

Flammable Limits

Not established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

MOR 000780

Printed: 9/25/2001

# Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions. Reaction with curing agents is exothermic; smoke or toxic fumes may be evolved if heat of reaction becomes excessive due to high curing temperatures or curing of large masses of material. See Section 5, "Hazardous Decomposition Products".

# Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

# **SECTION 5: REACTIVITY DATA**

# **Product Stability:**

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

# Incompatibility:

Incompatible with strong oxidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

# Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

#### Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

## **SECTION 6: RELEASE RESPONSE DATA**

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

# Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

# Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

MOR 000781

Printed: 9/25/2001

# **SECTION 7: HANDLING PRECAUTIONS**

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

# Personal Protection:

This product can cause eye irritation. Prevent eye contact through the use of chemical safety glasses, splash-proof chemical goggles, or face shield. This product can cause skin irritation and may cause allergic skin reactions. Wear appropriate protective gloves. If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to prevent skin contact and contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower should be available.

# Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

# Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

# **SECTION 8: HEALTH DATA**

## Routes of Exposure:

Skin and eye contact, inhalation of vapors.

## Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin and/or eye disorders.

# Eye Contact:

Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

#### Skin Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities.

# Inhalation:

Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely, due to the low volatility of this product.

MOR 000782

Printed: 9/25/2001

### Ingestion:

Harmful if swallowed.

## Chronic Health Effects:

Although the significance is unknown, the DGEBA epoxy resin in this product has been shown to be mutagenic in some microbial tests, but has failed to show mutagenicity in others. Chromosomal aberrations were observed in cultured rat liver cells. Two-year bioassays on mice exposed by the dermal route to DGEBA resins yielded only very limited evidence of weak carcinogenicity. Based on this and other evidence, the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

Recent laboratory studies on Salmonella bacterium (i.e. - Ames Test) indicated that Butyl Glycidyl Ether (BGE) may induce mutagenic changes, a possible precursor to cancer; However, subsequent laboratory cancer studies have shown no increase in carcinogenic potential resulting from BGE exposure.

# **SECTION 9: FIRST AID PROCEDURES**

# Eye Contact:

Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

#### Skin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

# Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

# Ingestion:

Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

# **SECTION 10: ADDITIONAL INFORMATION**

# Product NPCA Hazardous Material Identification System (HMIS) Rating:

Health: 2

Flammability: 1

Reactivity: 0

#### TSCA Status::

All components of this product are listed in the EPA Toxic Substance Control Act Inventory. This product contains the following substances which are subject to TSCA subject to TSCA Section 12(b) Export notification requirements:

Diglycidyl Ether of Bisphenol A (1675-54-3)

MOR 000783

Printed: 9/25/2001

Foreign Inventory Status:

Canadian DSL: All components listed or exempt European EINECS: All components listed or exempt

Japanese MITI ENCS: All components listed

Korean ECL: All components listed Australian AICS: All components listed

SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

D.O.T. Information:

Resin Compound, N.O.I. - Non-Regulated

Freight Code: 2015

Special Notes:

Date Prepared: Document No.:

12/31/98 150271

Supersedes: 1/18/96 Prepared by: David Haas

Revision Information:

Sections 2, 8, 10

Abbreviations:

NA = Not Applicable NE = Not Established ND = Not Determined ppm = Parts per Million

mg/m3 = Milligrams per Cubic Meter

C = Ceiling Concentration

mppcf = Million Parts per Cubic Foot STEL = Short Term Exposure Limit f/cc = Fibers per Cubic Centimeter

**SAFETY INFORMATION: (978)436-9781** 

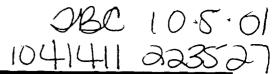
ADDITIONAL MSDS: (781)828-3300

MOR 000784

Printed: 9/25/2001

# **Emerson & Cuming**

a National Starch & Chemical Company



# MATERIAL SAFETY DATA SHEET

EMERSON & CUMING 46 MANNING ROAD

BILLERICA, MASSACHUSETTS 01821

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE,

OR ACCIDENT, NOTIFY:

CHEMTREC USA: 800-424-9300

INTERNATIONAL: 202-483-7616 (COLLECT)

**SECTION 1: IDENTIFICATION** 

Product Name:

STYCAST® 1265, PART A CLEAR

General Chemical Description:

**Epoxy Resin** 

**SECTION 2: INGREDIENTS** 

**Exposure Guidelines** 

Components % by Weight OSHA PEL ACGIH TLV

 DGEBA Epoxy Resin
 >99%
 NE
 NE

 Modifiers
 <1%</td>
 NA
 NA

**SECTION 3: PHYSICAL DATA** 

Boiling Point (°F):

>400

Vapor Pressure (mm Hg @ 25°C):

Negligible

Percent Volatiles by Weight:

Negligible

Specific Gravity (water = 1): Solubility in Water: 1.1-1.2 Insoluble

Vapor Density:

Heavier than air

Appearance and Odor:

Clear liquid, slight odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F):

>200

Flammable Limits

Not established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions. Reaction with curing agents is exothermic; smoke or toxic fumes may be evolved if heat of reaction becomes excessive due to high curing temperatures or curing of large masses of material. See Section 5, "Hazardous Decomposition Products".

Printed: 10/2/2001

# Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

## **SECTION 5: REACTIVITY DATA**

# **Product Stability:**

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur, however, review reactivity data concerning conditions to avoid and incompatible substances.

#### Incompatibility:

Incompatible with strong oxidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

# Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

#### Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

# **SECTION 6: RELEASE RESPONSE DATA**

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

# Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

#### Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

# SECTION 7: HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the

Printed: 10/2/2001

intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

#### Personal Protection:

This product can cause eye irritation. Prevent eye contact through the use of chemical safety glasses, splash-proof chemical goggles, or face shield. This product can cause skin irritation and may cause allergic skin reactions. Wear appropriate protective gloves. If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to prevent skin contact and contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower should be available.

# Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing.

### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

## **SECTION 8: HEALTH DATA**

# Routes of Exposure:

Skin and eye contact, inhalation of vapors.

# Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin and/or eye disorders.

#### Eye Contact:

Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

### Skin Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities.

#### Inhalation:

Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely, due to the low volatility of this product.

#### Ingestion:

Harmful if swallowed.

MOR 000787

Printed: 10/2/2001

#### Chronic Health Effects:

Although the significance is unknown, the DGEBA epoxy resin in this product has been shown to be mutagenic in some microbial tests, but has failed to show mutagenicity in others. Chromosomal aberrations were observed in cultured rat liver cells. Two-year bioassays on mice exposed by the dermal route to DGEBA resins yielded only very limited evidence of weak carcinogenicity. Based on this and other evidence, the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

# **SECTION 9: FIRST AID PROCEDURES**

# Eye Contact:

Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

#### Skin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

## Ingestion:

Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate attention.

# **SECTION 10: ADDITIONAL INFORMATION**

# Product NPCA Hazardous Material Identification System (HMIS) Rating:

Health: 2 Flammability: 1 Reactivity: 0

# TSCA Status::

All components of this product are listed in the EPA Toxic Substance Control Act Inventory. This product contains the following substances which are subject to TSCA subject to TSCA Section 12(b) Export notification requirements:

Diglycidyl Ether of Bisphenol A (1675-54-3)

## Foreign Inventory Status:

Canadian DSL: All components listed or exempt European EINECS: All components listed or exempt

Japanese MITI ENCS: Not determined Korean ECL: One component not listed Australian AICS: All components listed

#### SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

MOR 000788

Printed: 10/2/2001

D.O.T. Information:

Liquid Resin, N.O.I.- Non-Regulated

Freight Code: 2005

Special Notes:

Date Prepared:

12/31/98 151731 Supersedes: 1/15/96
Prepared by: David Haas

Document No.: Revision Information:

Sections 2, 10

Abbreviations:

NA = Not Applicable NE = Not Established ND = Not Determined ppm = Parts per Million

mg/m3 = Milligrams per Cubic Meter

C = Ceiling Concentration

mppcf = Million Parts per Cubic Foot STEL = Short Term Exposure Limit f/cc = Fibers per Cubic Centimeter

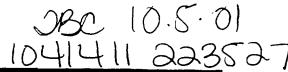
SAFETY INFORMATION: (978)436-9781 ADDITIONAL MSDS: (781)828-3300

MOR 000789

Printed: 10/2/2001

# **Emerson & Cuming**

a National Starch & Chemical Company



# MATERIAL SAFETY DATA SHEET

EMERSON & CUMING 46 MANNING ROAD

BILLERICA, MASSACHUSETTS 01821

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE,

OR ACCIDENT, NOTIFY:

CHEMTREC USA: 800-424-9300

INTERNATIONAL: 202-483-7616 (COLLECT)

**SECTION 1: IDENTIFICATION** 

**Product Name:** 

STYCAST® 1265, PART B

General Chemical Description:

Aliphatic Amine Blend

**SECTION 2: INGREDIENTS** 

**Exposure Guidelines** 

Components % by Weight OSHA PEL ACGIH TLV

Polyoxypropylene Polyamines Modifiers >90% <1% NE NA NE NA

**SECTION 3: PHYSICAL DATA** 

Boiling Point (°F):

ND

Vapor Pressure (mm Hg @ 25°C):

Negligible

Percent Volatiles by Weight: Specific Gravity (water = 1): Negligible 0.99

Solubility in Water:

Partially Soluble

Vapor Density:

Heavier than air

Appearance and Odor:

Water white liquid, strong amine odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F):

>200

Flammable Limits

Not Established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions.

MOR 000790

Printed: 10/2/2001

# STYCAST® 1265, PART B

# Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

# **SECTION 5: REACTIVITY DATA**

# **Product Stability:**

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

# Incompatibility:

Incompatible with strong oxidizers, acids, bases. Uncontrolled mixing with epoxides may cause hazardous exothermic polymerization, possibly resulting in evolution of smoke and toxic fumes

# Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

## Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with epoxies or exposure to incompatible substances.

### SECTION 6: RELEASE RESPONSE DATA

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

# Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

# **SECTION 7: HANDLING PRECAUTIONS**

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the

Printed: 10/2/2001

# STYCAST® 1265, PART B

intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

#### Personal Protection:

This product can cause eye burns. Prevent eye contact through the use of a face shield used in conjunction with either splash-proof chemical goggles or chemical safety glasses. This product can cause skin burns. Components of this product may also be absorbed through the skin. Wear appropriate protective gloves, a proper chemical resistant apron and additional impervious clothing to prevent all skin contact, contamination of clothing and possible absorption through the skin. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower must be available.

# Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or furnes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing.

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

# **SECTION 8: HEALTH DATA**

# Routes of Exposure:

Skin and eye contact, inhalation of vapors.

# Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin, eye and/or respiratory disorders.

# Eye Contact:

Contains materials corrosive to the eyes; may cause burns and possible corneal injury. Permanent impairment of vision or blindness may occur.

## Skin Contact:

Contains materials corrosive to the skin; may cause severe burns and blistering.

# Inhalation:

Vapors may cause irritation, nausea, and headaches.

#### Ingestion:

Harmful if swallowed. May cause burns to the mouth and upper gastro-intestinal tract.

# Chronic Health Effects:

None Established

MOR 000792

Printed: 10/2/2001

# **SECTION 9: FIRST AID PROCEDURES**

### Eye Contact:

Immediately flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

#### Skin Contact:

Immediately flush the affected area of the skin with plenty of water, while removing contaminated clothing or shoes. Follow by thoroughly washing with soap and water. Avoid scrubbing, as this action could increase skin absorption and worsen the effect of chemical contact. Get immediate medical attention. Do not reuse contaminated clothing until properly cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

#### Ingestion:

DO NOT induce vomiting. If victim is conscious and alert, dilute by giving water to drink; never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

## SECTION 10: ADDITIONAL INFORMATION

# Product NPCA Hazardous Material Identification System (HMIS) Rating:

Health: 3

Flammability: 1

Reactivity: 0

## TSCA Status::

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

# Foreign Inventory Status:

Canadian DSL: All components listed or exempt European EINECS: All components listed or exempt

Japanese MITI ENCS: All components listed

Korean ECL: All components listed Australian AICS: All components listed

# SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

# D.O.T. Information:

Polyamines, Liquid, Corrosive, N.O.S. (Polyoxypropylene Polyamines)

8; UN2735; PG III Freight Code: 2611

# Special Notes:

Date Prepared:

12/31/98

Supersedes: 6/26/97

**Document No.:** 

151739

Prepared by: David Haas

Revision Information:

Section 10

MOR 000793

Printed: 10/2/2001

# STYCAST® 1265, PART B

Abbreviations:

NA = Not Applicable NE = Not Established ND = Not Determined ppm = Parts per Million

mg/m3 = Milligrams per Cubic Meter

C = Ceiling Concentration

STEL = Short Term Exposure Limit mppcf = Million Parts per Cubic Foot f/cc = Fibers per Cubic Centimeter

SAFETY INFORMATION: (978)436-9781

ADDITIONAL MSDS: (781)828-3300

MOR 000794

# Emerson & Cumina

4me: 1000135 Let: 222520 9-2401

a National Starch & Chemical Company

# MATERIAL SAFETY DATA SHEET

**EMERSON & CUMING 46 MANNING ROAD BILLERICA, MASSACHUSETTS 01821**  IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR

ACCIDENT, NOTIFY:

CHEMTREC USA: 800-424-9300

INTERNATIONAL: 202-483-7616 (COLLECT)

# **SECTION 1: IDENTIFICATION**

Product Name:

STYCAST® 2850FT BLACK

General Chemical Description:

**Epoxy Resin** 

# **SECTION 2: INGREDIENTS**

Hazardous Components	% by Weight	Exposure Guidelines OSHA PEL ACGIH	
Mineral Filler, Modifiers			
DGEBA Epoxy Resin	10-30%	NE	NE
n-Butyl Glycidyl Ether	1-10%	50 ppm	25 ppm
Carbon Black	< 0.5%	3.5 mg/m3	3.5 mg/m3
Non-Hazardous Components	% by Weight		
Mineral Filler, Modifiers	60-90%		

# **SECTION 3: PHYSICAL DATA**

Boiling Point (°F):

ND

Vapor Pressure (mm Hg @ 25°C):

< 0.1 < 2

Percent Volatiles by Weight: Specific Gravity (water = 1):

2.35 - 2.45

Solubility in Water:

Insoluble

Vapor Density:

Heavier than air

Appearance and Odor:

Black liquid, mild odor

# SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F):

> 200

Flammable Limits

Not Established

Extinguishing Media:

Use carbon dioxide, dry chemical, foam, water fog.

MOR 000795

Unusual Fire or Explosion Hazard:

Printed: 7/10/01

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions. Reaction with curing agents is exothermic; smoke or toxic fumes may be evolved if heat of reaction becomes excessive due to high curing temperatures or curing of large masses of material. See Section 5, "Hazardous Decomposition Products".

# Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

## **SECTION 5: REACTIVITY DATA**

# **Product Stability:**

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

# Incompatibility:

Incompatible with strong oxidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

# Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

#### Conditions to Avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

# **SECTION 6: RELEASE RESPONSE DATA**

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

# Large Spills:

Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

## **SECTION 7: HANDLING PRECAUTIONS**

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application,

Printed: 7/10/01 Page: 2

The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to werify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

#### Personal Protection:

This product can cause eye irritation. Prevent eye contact through the use of chemical safety glasses, splash-proof chemical goggles, or face shield. This product can cause skin irritation and may cause allergic skin reactions. Wear appropriate protective gloves. If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to prevent skin contact and contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower should be available.

# Ventilation Recommendations and Respiratory Protection:

Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

#### SECTION 8: HEALTH DATA

#### Routes of Exposure:

Skin and eye contact, inhalation of vapors.

## Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin and/or eye disorders.

#### Eve Contact:

Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

# Skin Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities.

## Inhalation:

Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely, due to the low volatility of this product.

#### Ingestion:

Harmful if swallowed.

#### Chronic Health Effects:

Although the significance is unknown, the DGEBA epoxy resin in this product has been shown to be mutagenic in some microbial tests, but has failed to show mutagenicity in others. Chromosomal aberrations were observed in cultured rat liver cells. Two-year bioassays on mice exposed by the dermal

Printed: 7/10/01 Page: 3

The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

route to DGEBA resins yielded only very limited evidence of weak carcinogenicity. Based on this and other evidence, the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

Recent laboratory studies on Salmonella bacterium (i.e. - Ames Test) indicated that Butyl Glycidyl Ether (BGE) may induce mutagenic changes, a possible precursor to cancer; However, subsequent laboratory cancer studies have shown no increase in carcinogenic potential resulting from BGE exposure.

The International Agency for Research on Cancer (IARC) has classified free carbon black as a Class 2B carcinogen, in that there is sufficient evidence for carcinogenicity in animals (based on inhalation studies), but evidence for carcinogenicty in humans is nonexistent. Exposure to free carbon black, however, is unlikely, unless the cured product is machined or ground in such a manner to evolve dusts; or in spray applications where vapors or fumes containing carbon black may become airborne, thus creating potential for inhalation exposure.

# **SECTION 9: FIRST AID PROCEDURES**

# Eye Contact:

Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

#### Skin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

# Ingestion:

Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

#### **SECTION 10: ADDITIONAL INFORMATION**

## Product NPCA Hazardous Material Identification System (HMIS) Rating:

Health: 2 Flammability: 1 Reactivity: 0

#### TSCA Status::

All components of this product are listed in the EPA Toxic Substance Control Act Inventory. This product contains the following substances which are subject to TSCA subject to TSCA Section 12(b) Export notification requirements:

Diglycidyl Ether of Bisphenol A (1675-54-3)

## Foreign Inventory Status:

Canadian DSL: All components listed or exempt European EINECS: All components listed or exempt Japanese MITI ENCS: All components listed

Korean ECL: All components listed Australian AICS: All components listed

MOR 000798

#### SARA Status:

This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

Printed: 7/10/01

D.O.T. /IATA Information:

Resin Compound, N.O.I. - Non-Regulated

Date Prepared:

12/31/00

Supersedes: 11/9/00

Document No.:

150005

Prepared by: David Haas

Revision Information: Website Identifier:

Section 2 Component listing 2850FT BLK - 150005

Abbreviations:

NA = Not Applicable NE = Not Established ND = Not Determined ppm = Parts per Million

mg/m3 = Milligrams per Cubic Meter

C = Ceiling Concentration

mppcf = Million Parts per Cubic Foot STEL = Short Term Exposure Limit f/cc = Fibers per Cubic Centimeter

SAFETY INFORMATION: (978)436-9781

ADDITIONAL MSDS: (781)828-3300

MOR 000799

Printed: 7/10/01

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# MATERIAL SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

: RT-1

PRODUCT USE/CLASS : EPOXY HARDENER

DATE PRINTED: 06/05/97

CASTALL, INC. WEYMOUTH INDUSTRIAL PARK EAST WEYMOUTH, MA 02189

EMERGENCY TELEPHONE: 814 763-2345

24 HOURS A DAY

INFORMATION TELEPHONE : 814 868-3611

PREPARE DATE: 07/22/96

PREVIOUS MSDS REVISION DATE: 07/22/96

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS								
		Wt %	_ \rangle \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\exitt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	- Expe	sure O	Guide SHA —	lines Units	
Chemical Name	CAS Number	Than	TWA	STEL	AWT	Ceil	Unics	Skin

Amine Amine compound

Proprietary 95% N.E. N.E. N.E. N.E. Proprietary 3.0% N.E. N.E. N.E. N.E.

N.E. - Not Established, S - Skin Designation, C - Ceiling

#### SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Amber Liquid, with Amine odor. May cause skin and eye irritation. May cause allergic skin reaction. May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. May cause skin sensitization. May cause dermatitis.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Indestion is not an expected route of entry in industrial or commercial uses.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Chronic skin contact may cause dermatitis.

(Continued on Page 2)

99016T00001

# SECTION 3 - HAZARDS IDENTIFICATION

PRIMARY KOUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

# SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

FIRST AID - SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Give victim one or two glasses of water or milk. Call a physician or poison control center immediately for further instructions. Never give anything by mouth to an unconscious person.

#### SECTION 5 - FIRE FIGHTING MEASURES

PLASH POINT: >200F, >93C (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A. UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.D.

OSHA PLAMMABILITY CLASSIFICATION: COMBUSTIBLE LIQUID - CLASS IIIB

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool.

SPECIAL FIREFIGHTING PROCEDURES: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCRA). If water is used, fog nozzles are preferable. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

(Continued on Page 3)

Product: RT-1, Prepare Date: 07/22/96

Page 3

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep non-ossential personnel a safe distance away from the spill area. Avoid breathing vapors. Use self-contained breathing equipment. Notify appropriate authorities if necessary. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the MSDS form. Scoop spilled material into an appropriate container for proper disposal. (If necessary, use inert absorbent material to aid in containing the spill).

## SECTION 7 - HANDLING AND STURAGE

HANDLING: Keep closure hight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation.

STORAGE: Store only in well-ventilated areas. Keep container closed when not in use.

# SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

RESPIRATORY PROTECTION: Use a NIOSH/MSHA approved air-puritying Organic vapor respirator it occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact.

EYE PROTECTION: Use safety eyewear including safety glasses with Side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Remove and wash contaminated clothing before reuse.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

(Continued on Page 4)

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 527 - 630 F VAPOR DENSITY : Is heavier than air APPEARANCE : Amber ODOR THRESHOLD : N.D. PHYSICAL STATE : Liquid EVAPORATION RATE: Is slower than Ether

ODOR : Amine DENEITY, LB/GAL: 9.23
SOLUBILITY IN H2O: Insoluble SPECIFIC GRAVITY: 0.99
FREEZE POINT: N.D. ph : N.A.
VOLATILE BY WEIGHT: 0.0 %
VOLATILE BY VOL: 0.0 %

VAPOR PRESSURE : N.D.

COEFFICIENT OF WATER/OIL DISTRIBUTION: N.D.

(See Section 16 for abbreviation legend)

#### SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY: Strong acids, bases, and strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, organic or inorganic nitrogen compounds including traces of hydrogen cyanide.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

# SECTION 11 - TOXICOLOGICAL PROPERTIES

No product toxicological information is available.

## SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

# SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

(Continued on Page 5)

Product: RT-1, Prepare Date: 07/22/96

Page 5

# SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: CORROSIVE LIQUIDS, NOS

DOT HAZARD CLASS: 8

EMERGENCY RESPONSE GUIDE NUMBER: 154

DOT UN/NA NUMBER: UN1760

PACKING GROUP

: III

# SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CPR Part 372:

----- CHEMICAL NAME ----- CAS NUMBER WT % IS LESS THAN NONE

TOXIC SUBSTANCES CONTROL ACT:

INVENTORY STATUS

The chemical substances in this product are on the TSCA Section 8 Inventory.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: D2A, D2B

# SECTION 16 - OTHER INFORMATION

HMIS RATINGS | HEALTH: 2* | FLAMMABILITY: 2 | REACTIVITY: 1

* - Indicates a chronic hazard; see Section 3

REASON FOR REVISION: New MSDS

VOLATILE ORGANIC COMPOUNDS (VOCS): 0.00 lbs/gal, 0 grams/ltr

(Continued on Page 6)

1110.200

# SECTION 16 - OTHER INFORMATION

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

<END OF MSDS>



#### MATERIAL SAFETY DATA SHEET

Rec. 74 12/11/00 MSDS-0107

**OB-101 (PART A)** REV. DATE: 10/29/97

SUPERSEDES: 12/7/92

Tmc#

**SECTION 1 - IDENTIFICATION** 

PRODUCT (TRADE) NAME: OMEGABOND® 101 Epoxy (Part A)

CHEMICAL FAMILY: Epoxy Resin

GENERAL DESCRIPTION: Two-part Epoxy Resin; "A" Component (Black)

SUPPLIER:

OMEGA ENGINEERING INC.

PO BOX 4047

STAMFORD, CT 06907

TELEPHONE:

(203) 359-1660

#### **SECTION 2 - INGREDIENTS**

Exposure Guidelines Components ACGIH TLV	% by Weight	OSHA PEL
DGEBA Epoxy Resin	>20%	NE
NE Amorphous Furned Silica	3-5%	6 mg/m ³
10 mg/m ³ Modifler	<5%	NA
NA Ti	.10/	NA
Pigment NA	<1%	INA

# **SECTION 3 - PHYSICAL DATA** ND

Boiling Point (Degree *F): Vapor Pressure (mm Hg € 25°C) Percent Volatiles by Weight: Specific Gravity (water = 1): Solubility in Water:

Negligible 1.1-1.2 Insoluble

Vapor Density: Appearance and Odor: ND

Negligible

Black paste

#### **SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Degree °F): Flammable Limits:

>200 NE

Extinguishing Media:

Use carbon dioxide, dry chemical, foam.

water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may

be toxic. Closed containers may violently rupture under fire conditions.

Special Firefighting Procedures: Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

#### **SECTION 5 - REACTIVITY DATA**

Product Stability: Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid any incompatible substances.

incompatibility: Incompatible with strong oxidizers, acids, bases; uncontrolled mixing with amines, anhydrides, mercaptans, imidazoles may cause hazardous polymerization.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

Conditions to Avoid: Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

#### **SECTION 6 - RELEASE RESPONSE DATA**

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

Small Spills: Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

Large Spills: Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and

#### **MATERIAL SAFETY DATA SHEET**



MSDS-0107 OB-101 (PART A) REV. DATE: 10/29/97 SUPERSEDES: 12/7/92

water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State and local regulations.

#### **SECTION 7 - HANDLING PRECAUTIONS**

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer applications, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

Personal Protection: This product can cause eye irritation. Prevent eye contact through the use of chemical safety glasses, splash-proof chemical goggles, or face shield. This product can cause skin irritation and may cause allergic skin reactions. Wear appropriate protective gloves. If necessary, a proper chemical-resistant apron and additional impervious clothing should be used to prevent skin contact and contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower should be available.

Ventilation Recommendations and Respiratory Protection: Provide effective mechanical exhaust ventilation to draw vapors, mists, or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 Ingredients below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

**Storage:** Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

#### **SECTION 8 - HEALTH DATA**

Routes of Exposure: Skin and eye contact, inhalation of vapors.

Medical Conditions Aggravated by Exposure: Exposure may aggravate preexisting skin and/or eye disorders.

**Eye Contact:** Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

Skin Contact: Contains materials which cause moderate skin Irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals; symptoms include rash, itching, hives, swelling of the extremities.

**Inhelation:** Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely, due to the low volatility of this product.

Ingestion: Harmful if swallowed.

Chronic Health Effects: Although the significance is unknown, the DGEBA epoxy resin in this product has been shown to be mutagenic in some microbial tests, but has failed to show mutagenicity in others. Chromosomal abberations were observed in cultured rat liver cells. Two-year bloassays on mice exposed by the dermal route to DGEBA resins yielded only very limited evidence of weak carcinogenicity. Based on this and other evidence, the International Agency for Research on Cancer (IARC) concluded in 1988 that DGEBA epoxy resins are not classifiable as carcinogens.

#### **SECTION 9 - FIRST AID PROCEDURES**

Eye Contact: Flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin Contact: Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get immediate medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

**Inhalation:** Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

**Ingestion:** Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate attention.

#### **SECTION 10 - ADDITIONAL INFORMATION**

ISCA Status: All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

SARA Status: This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

The information contained herein is based upon data considered true and accurate. However, OMEGA makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation and verification. Since the use and conditions of use of this information and the material described herein responsibility for injury to the user or third persons. The material described herein is sold only pursuant to OMEGA's Terms and Conditions of Sale, including those limiting warranties and remedies contained therein, it is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state or local laws and regulations.

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MSDS-0107 **OB-101 (PART B)** 

REV. DATE: 10/29/97 **SUPERSEDES: 10/27/92** 

**SECTION 1 - IDENTIFICATION** 

PRODUCT (TRADE) NAME: OMEGABOND® 101 Epoxy (Part B)

CHEMICAL FAMILY: Amine/Epoxy Adduct

General Description: Two-part Epoxy Resin: "B" Component (White)

SUPPLIER:

OMEGA ENGINEERING INC.

PO BOX 4047

STAMFORD, CT 06907

TELEPHONE:

(203) 359-1660

#### **SECTION 2 - INGREDIENTS**

Exposure Guidelines Components PEL	% by Weight ACGIH TLV	OSHA
Aluminum Oxide	65–75%	10
mg/m ³	10 mg/m ³	
Amine-terminated Adduct	20–30%	NE
NE		
Amorphous Furned Silica	1–5%	6 mg/m ³
10 mg/m ³		
Additions/Pigments	<3%	NE
NE		

#### **SECTION 3 - PHYSICAL DATA**

Boiling Point (Degree *F):

ND

Vapor Pressure (mm Hg @ 25°C) Percent Volatiles by Weight:

Negligible Negligible

Specific Gravity (water = 1):

2.2

Solubility in Water:

Partially soluble

Vapor Density:

Heavier than air

White paste; amine odor Appearance and Odor:

#### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Degree *F):

>200

Flammable Limits:

NE

**Extinguishing Media:** 

Use carbon dioxide, dry chemical, foam, water fog.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may

be toxic. Closed containers may violently rupture under fire conditions.

Special Fireflahting Procedures: Fireflahters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

#### **SECTION 5 - REACTIVITY DATA**

Product Stability: Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid any incompatible substances.

Incompatibility: Incompatible with strong oxidizers, acids, bases, epoxides.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combus-

Conditions to Avoid: Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with epoxies or exposure to incompatible substances.

#### **SECTION 6 - RELEASE RESPONSE DATA**

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

Small Spills: Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with current Federal, State, and local regulations.

Large Spills: Limit access to the immediate spill area. Shut off source of the release if this can be done without risk of injury. Activate available exhaust ventilation systems in the area. Dike area to contain the spill and prevent releases to sewers, drains or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue, Wash area with soapy water. Prevent runoff from entering waterways. Transfer absorbed material and water rinses to appropriate waste containers. Dispose of in accordance with current Federal, State, and local regulations.



MSDS-0107 OB-101 (PART B) REV. DATE: 10/29/97 SUPERSEDES: 10/27/92

**SECTION 7 - HANDLING PRECAUTIONS** 

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

Personal Protection: This product can cause severe eye irritation. Prevent eye contact through the use of a face shield used in conjunction with either splash-proof chemical goggles or chemical safety glasses. This product can cause severe skin irritation and may cause allergic skin responses. Components of this product may also be absorbed through the skin. Wear appropriate protective gloves, a proper chemical resistant apron and additional impervious clothing to prevent all skin contact, contamination of clothing and possible absorption through the skin. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower must be available.

Ventilation Recommendations and Respiratory Protection: Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation. This is necessary especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 ingredients below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. The type of protection selected (SCBA, air-purifying, etc.) will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

**Storage:** Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Keep away from open flames and heat sources. Consult the product Technical Bulletin for detailed storage information.

#### **SECTION 8 - HEALTH DATA**

Routes of Exposure: Skin and eye contact, inhalation of vapors.

Medical Conditions Aggravated by Exposure: Exposure may aggravate preexisting skin, eye and/or respiratory disorders.

Eye Contact: Contains materials severely irritating to the eyes; may cause burns.

Skin Contact: Contains materials corrosive to the skin; may cause severe burns and blistering. This product may cause skin sensitization/allergic skin reactions which may be severe in certain individuals. May be absorbed through the skin; however, this product as a whole has not been tested for dermal toxicity.

Inhalation: Vapors may cause irritation, nausea, and headaches.

Ingestion: Harmful is swallowed.

Chronic Health Effects: None known.

#### **SECTION 9 - FIRST AID PROCEDURES**

Eye Contact: Immediately flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

Skin Contact: Immediately flush the affected area of the skin with plenty of water, while removing contaminated clothing or shoes. Follow by thoroughly washing with soap and water. Avoid scrubbing, as this action could increase skin absorption and worsen the effect of chemical contact. Get immediate medical attention. Do not reuse contaminated clothing until properly cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed.

Inhalation: Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

Ingestion: Dilute by giving plenty of water to drink, if victim is conscious and alert. Never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate attention.

#### **SECTION 10 - ADDITIONAL INFORMATION**

TSCA Status: All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

**SARA Status:** This product does not contain any substances regulated by the SARA Section 313 amendments to RCRA.

Abbreviations: NA = Not Applicable NE = Not Established ND = Not Determined ppm = Parts per Million mg/m³ = Milligrams Per Cubic Meter C = Celling Concentration STEL = Short Term Exposure Limit

The information contained herein is based upon data considered true and accurate. However, OMEGA makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. This information is offered solely for the user's consideration, investigation and verification. Since the use and conditions of use of this information and the material described herein responsibility for injury to the user or third persons. The material described herein is sold only pursuant to OMEGA's Terms and Conditions of Sale, including those limiting warranties and remedies contained therein, it is the responsibility of the user to determine whether any use of this data and information is in accordance with applicable federal, state or local laws and regulations.

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#### MATERIAL SAFETY DATA SHEET

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

: E-341FR BLACK

PRODUCT USE/CLASS : EPOXY RESIN

DATE PRINTED: 03/19/97

CASTALL, INC. WEYMOUTH INDUSTRIAL PARK EAST WEYMOUTH, MA 02189

EMERGENCY TELEPHONE: 814 763-2345

24 HOURS A DAY

INFORMATION TELEPHONE : 814 868-3611

PREPARE DATE: 03/19/97

PREVIOUS MSDS REVISION DATE: 12/26/96

SECTION 2 - CO	mposition/in	FORMATION (	ON INCREDI	ents	
·		Wt % ACC	Exposure	Guidel	ines -
Chemical Name	CAS Number	Than TWA	STEL TWA	Ceil U	nits Skin

Carbon black Epoxy resin 1333-86-4 1.0% 3.5 N.E. 3.5 N.E. mg/m3 Proprietary 40% N.E. N.E. N.E. N.E.

N.E. - Not Established, S - Skin Designation, C - Ceiling

#### EECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Viscous, black Liquid, with No odor. May cause skin and eye irritation. May cause allergic skin reaction. May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation.

#FFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. May cause skin sensitization. May cause dermatitis.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed. Inquistion is not an expected route of entry in industrial or commercial uses.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Chronic skin contact may cause dermaticis. IARC has designated carbon black as Croup 2B - inadequate eyidence for cardinogenicity in humans, but sufficient evidence in experimental animals.

(Continued on Page 2)

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Page 2

#### SECTION 3 - HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF ENTRY: INHALATION INGESTION EYE CONTACT SKIN CONTACT

#### SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

FIRST AID - SKIN CONTACT: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

FIRST AID - INHALATION: Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, do not induce vomiting. Give victim one or two glasses of water or milk. Call a physician or poison control center immediately for further instructions. Never give anything by mouth to an unconscious person.

#### SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200F, >93C (SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: N.A. UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.D.

OSHA FLAMMABILITY CLASSIFICATION: COMBUSTIBLE LIQUID - CLASS IIIB

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool.

SPECIAL FIREFIGHTING PROCEDURES: Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

(Continued on Page 3)

Page 3

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid breathing vapors. Notify appropriate authorities if necessary. Avoid contact. Use appropriate respiratory protection for large spills or spills in confined area. Keep non-essential personnel away from spill area. Scoop spilled material into an appropriate container for proper disposal. (If necessary, use lineral absorbent material to aid in containing the spill).

#### SECTION 7 - HANDLING AND STORAGE

HANDLING: Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation.

STORAGE: Store only in well-ventilated arcas. Keep container closed when not in use.

#### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

RESPIRATORY PROTECTION: Use a NIOSH/MSHA approved air-pprifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

SKIN PROTECTION: Use neoprene, nitrile, or rubber gloves to prevent skin contact.

EYE PROTECTION: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

(Continued on Page 4)

Page 4

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

DOILING RANGE : N.A. VAPOR DENSITY : Is heavier than air

APPEARANCE : Viscous, black ODOR THRESHOLD : N.D.

PHYSICAL STATE : Liquid EVAPORATION RATE: Is slower than Ether

ODOR : No DENSITY, LB/GAL : 13.70
SOLUBILITY IN H2O : Insoluble SPECIFIC GRAVITY: 1.64
FREEZE POINT : N.D. ph : N.A.
VOLATILE BY WEIGHT: 0.4 % VOLATILE BY VOL : 0.7 %

VAPOR PRESSURE : N.D.

COEFFICIENT OF WATER/OIL DISTRIBUTION: N.D.

(See Section 16 for abbreviation Legend)

#### SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY: Amines, acids, water, hydroxyl, or active hydrogen compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

#### SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT LD50 (ORAL) : No Data (DERMAL): No Data PRODUCT LC50 : No Data

#### SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

#### SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. It waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

(Continued on Page 5)

Page 5

#### SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: NOT RECULATED

DOT HAZARD CLASS: NONE

EMERGENCY RESPONSE GUIDE NUMBER: NONE

DOT UN/NA NUMBER: NONE

PACKING GROUP

: NONE

#### SECTION 15 - REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

#### SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

------ CHEMICAL NAME ------ CAS NUMBER WT % IS LESS THAN NONE

TOXIC SUBSTANCES CONTROL ACT:

#### INVENTORY STATUS

The chemical substances in this product are on the TSCA Section 8 inventory.

#### EXPORT NOTIFICATION

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME ----- CAS NUMBER

### INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

#### SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2* FLAMMABILITY: 1 REACTIVITY: 0

* - Indicates a chronic hazard; see Section 3

(Continued on Page 6)

Page 6

#### SECTION 16 - OTHER INFORMATION

REASON FOR REVISION: Update Section 15; Export Notification

VOLATILE ORGANIC COMPOUNDS (VOCS): 0.06 lbs/gal, 7 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. Not Established,

N.D. - Not Determined

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liablility for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

### MATERIAL SAFETY DATA SHEET

MSDS 1743
Recover \$ 12/2/99

					_ recu	1: CV SEP
Identity: Eyesaline Sol 1050,401,501,502,504,5	ution - Part #'s 05,506,507,508,510,512,52	0,533,53	4.433.450.4	51.452.453		
Manufacturer: Fendali Com	pany	- 301 - 74 days		Telephone: 84		A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR
Address: 5 East College Driv	<u> </u>	<del></del>		Telephone: 8		
Arlington Heights, I		Date Prepar				
Section II Hazardous	Ingredients/Identity Infor	mation	15620x	E Man	A STATE OF THE PARTY OF	
Hazardous Components			OSHA	ACGIH	Other limits	% (optional)
(Specific Chemical Identity;			PEL	TLV	recommended	
BENZALKONIUM CHLORIDE C		<u></u>	NONE	NONE	N/A	<0.1%
	al Characteristics?					<b>建設设施</b> 公司建立
Boiling Point: 212° F (100° C	<u></u>			0)-1: NOT DI	ETERMINED	····
Vapor Pressure (mm Hg.): 7			Point: N/A		·	
Vapor Density (Air = 1): NO	DETERMINED	Evapor	tion Rate (Bu	ityl Acetate = 1	): NOT DETERM	IINED
Solubility in Water: 100%	ORLEGE LIQUID WITH NO DIG	CEDIMOL	CODOR	·	<del></del>	
- `	ORLESS LIQUID WITH NO DISC					
	on Hazard Dataste		4	E Property		
Flash Point (Method Used): 1		L	ble Limits:		LEL: N/A	UEL: N/A
	is a nonflammable aque	OUS SOL	UTION		·	
Special Fire Fighting Procedu			·	- <u></u>	•	
Unusual Fire and Explosion I						
	<b>文字</b> 的方式。					
Stability	Unstable: NO Stable: YES	NON		AND STABLE	DUCT IS STABLE UNDER NORMAI	. CONSIDERED L CONDITIONS OF
Incompatibility (Materials to	Avoid): NONE KNOWN					
Hazardous Decomposition or	• •					
Hazardous Polymerization	May Occur: NO Will Not Occur: YES		litions to Avoi			
Section VI - Health Hazard D		2 75	A THE STATE OF	Sen E	五 海 五	
	<del>_</del>	tion? YES				
	hronic): INGESTION OF VOLUI				CAUSE GASTRIC	CIRRITATION.
Carcinogenicity: NTP? NO		OSH	A Regulated?	NO		
Signs and Symptoms of Expos				·		
Emergency First Aid Procedu	Aggravated by Exposure: N/A ires: NOTES TO PHYSICIAN: II E VOMITING AND OBSERVE TH					LARGE VOLUMES
	Safe Handling and Users Share					
	terial is Released or Spilled: FLI					
Waste Disposal Method: NA		~				<del></del>
FOR EXTENDED PERIODS.	andling and Storing: DO NOT I	FREEZE (	R EXPOSE T	O TEMPERAT	URES IN EXCESS	S OF 110° F (43° C)
Other Precautions: N/A						
Section VIII - Control Measus	THE RESERVE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	*		情激励的。	之一	
Respiratory Protection: N/A			<u> </u>			
Ventilation	Local Exhaust: N/A					cial: N/A
-	Mechanical: N/A				Oth	er: N/A
Protective Gloves: N/A			Eye Protect	ion: NA		·
Other Protective Clothing: N						
Work Hygienic Practices: N/	٨					

3731

## ETHYL CYANOACRYLATE

(SEE **SUPERGLUE**)

CHEMTRONICS INC.

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Address: 8125 Cobb Center Drive Kennesaw, GA 30152

> Product Information: 800-TECH-401 800-645-5244 Customer Service:

Emergency: Revision Date: (Chemtrec) 800-424-930

October 6, 1997

Product Identification

SELECTRO-WASH® PX (Formerly CFC-Free Electro-Wash 2000)

Product Code: ES1210 (NSN 6850-01-393-9054), ES810B

SECTION 2: COMPOSITION/INFORMATION	ON INGREDIENTS	
Chemical Name	CAS No.	Wt. % Range
Isohexane, a mixture of:		
n-hexane	110-54-3	0.1-25.0
2-methylpentane	107-83-5	1.0-46.0
3-methylpentane	96-14-0	1.0-25.0
2.3-Dimethylbutane	79-29-8	1.0-25.0
2.2-Dimethylbutane	75-83-2	1 0-25.0
Denatured alcohol a mixture of		
Ethanoi	64-17-5	1.0-25.0
Methanol	67-56-1	0.1-10.0
Ethyl acetate	141-78-6	0.1-10.0
Isopropanol	67-63-0	1.0-20.0
Carbon dioxide	124-38-9	1.0-20.0

#### SECTION 3: HAZARD IDENTIFICATION

Clear, colorless liquid with mild hydrocarbon solvent. This product is extremely flammable. Liquid will irritate eyes and skin under Entergency Overview: repeated or prolonged exposure. Breathing high concentrations of product may produce drowsiness and a headache

Potential Health Effects:

Eyes: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation.

Skin: Contact causes skin irritation

Ingestion: Harmful if swallowed. Irritating to the mouth, throat and stomach. May cause vomiting. Inhalation: Harmful if inhaled. High concentrations in immediate area can displace oxygen and cause dizziness, unconsciousness and even death with longer exposure. Keep people away from such vapors without selfcontained breathing apparatus. Pre-Existing Medical Conditions Aggravated by Exposure: Heart, lung, skin, eye.

#### **SECTION 4: FIRST AID MEASURES**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Ingestion: If swallowed, do not induce vomiting. Keep head below knees to minimize chance of aspirating material into the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### SECTION 5: FIRE FIGHTING MEASURES

Flash Point: -200 (isohexane) LEL/UEL: 1.2/7.7 (% by volume in air) Extinguishing Media: Use alcohol foam, carbon dioxide or water spray when fighting tires involving this material. Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Large Spills: Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Absorb spill with inert material (i.e. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches that lead to waterways. Small Spills: Absorb spill with inert material (i.e. dry sand or earth), then place in a chemical waste container for proper disposal.

#### SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with skin, eyes or clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor. Do not reuse this container. Store in a cool dry place, away from heat, sparks or flames. Keep container tightly closed when not in use. Do not store in direct sunlight. KEEP OUT OF REACH OF CHILDREN.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION Exposure Guidelines: **OSHA PEL OSHA STEL** CHEMICAL NAME **ACGIH TWA** n-Hexane 50 ppm 500 ppm NA 2-methylpentane NA NA NA NA 3-methylpentane NA NA NA 2.3-Dimethylbutane NA NA NA 2.2-Dimethylbutane NA NA Denatured alcohol, a mixture of: 1000 ppm Ethanol 1000 ppm NA Methanol 200ppm 200ppm 250ppm 400 ppm NA Ethyl acetate 400 ppm Isopropanol 400 ppm 400 ppm 500 ppm 30,000ppm Carbon dioxide 5000 ppm 5,000 ppm

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields, goggles and rubber or other chemically resistant gloves when handling this material.

NFPA and HMIS Codes:	NFPA	HMIS
Health	1	1
Flammability	3	3
Reactivity	1	1
Personal Protection	•	В

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear, colorless liquid Odor: Mild hydrocarbon solvent

pH: NA
Vapor Pressure: 198 mm Hg @ 68 F (liquid)
Vapor Density: 3 (isohexanes) (Air 1)

Solubility in Water: Negligible
Specific Gravity: 0.70 @ 68F
Evaporation Rate: <1 (Butyl acetate=1)

<u>Viscosity:</u> Not established (Water = 1)

Percent Volatile: 100

#### SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable. Conditions to Avoid: Do not spray near open flames, red hot surfaces or other sources of ignition.

Incompatibility, Do not mix powdered alkali and alkaline earth metals or strong oxidizing agents.

<u>Products of Decomposition:</u> Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons.

Hazardous Polymerization: Will not occur. Conditions to avoid: NA

SECTION 11: TO	XICOLOGICAL INF	ORMATION (NIOSH RTECS the	rough October 1995)			
Inhalation:			Ingestion:			
Ethanol	LC50 rats	20,000 ppm/10 hr	Ethanol	LD50 rats	7060 mg/kg	
Ethyl acetate	LC50 rats	200gm/m³	Ethyl acetate	LD50 rats	5620 mg/kg	
Isopropanol	LC50 rats	16,000 ppm/8 hrs	Isopropanol	LD50 rats	5,045mg/kg	
<u>Skin</u>			Eyes:			
Isopropanol	LD50 rabbits	12,800 mg/kg	Isopropanol	rabbit	100 mg SEV	
Ethanol	rabbit	400 mg open MILD	Ethanol	rabbit	500 mg SEV	
Ethyl acetate	LD50 rabbit	>20 mL/kg				

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

Enviror	mental Imp	ect Data		
	(percent by w	eight)		
CFC	0.0%	VOC	95.7%	
HCFC	0.0%	HFC	0.0%	
Cl. Solv.	0.0%	ODP	0.00	
For more inforr	nation call:	1-800-645-5	244	
	CFC HCFC Cl. Solv.	(percent by w CFC 0.0% HCFC 0.0% CI. Solv. 0.0%	HCFC 0.0% HFC CI. Solv. 0.0% ODP	(percent by weight) CFC 0.0% VOC 95.7% HCFC 0.0% HFC 0.0%

#### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations

#### SECTION 14: TRANSPORTATION INFORMATION

	Proper			Sub.	Pkg.	Hazard	Pkg.	Max.
	Shipping Name	UN Number	Class	Risk	Group	Label	Instr.	Quantity
<u>Air:</u>	Aerosols Flammable, n.o.s.	UN 1950	2.1	NA	NA	Flammable	203/	75/
<del></del>						Gas	Y203	30 kg
Ground:	Consumer Commodity ORM-D	NA	NA	NA	NA	ORM-D	Pkg. Auth.	173.306

#### SECTION 15: REGULATORY INFORMATION

#### SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372). This information should be included on all MSDSs copied and distributed for this material.

Chemical Name

CAS No.

Methanol 67-56-1 1.0-3.8

TOXIC SUBSTANCES CONTROL ACT (TSCA). All ingredients of this product are listed on the TSCA Inventory.

#### SECTION 16: OTHER INFORMATION

Product is a Level 3 aerosol. Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released. NOTE: This MSDS is applicable to all product containers with date codes of 01175 or later.

REFERENCES: 29 CFR 1910.1200 40 CFR 300-700 ANSI Z400.1-1993
NIOSH RTECS provided by CHEM-BANK by SILVERPLATTER

Guide to Occupational Exposure Values 1996

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.

Wt. % Range



MOR 000820

NiATERIAL SAFETY DATA SHEET
May be used to comply with.
OSHA's Hazard Communication Standard,
29 CFR 1910, 1200. Standard must be
consulted for specific requirements.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

(Non-Mandatory Form)
Form Approved

OMB No. 1218-0072

MSDS 1324

Identity (as used on Label and List)
FOILLE PLUS MEDICATED FIRST AID SPRAY

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Manufacturer's Name:	BLISTEX IN	C.		Emergency	Telephone Nu	mber:	(630)	571-28	70
Address (Number, Street,	City, State, and Zip 1800 Swift I			Telephone N	lumber for Info	omation:	(630)	571-28	70
	Oak Brook,	IL 60521		Date Prepar		115197			
				Signature:	MA.	りま		Prepa	rer. LG
ECTION II - Hazardo	ous Ingredient	s / Identity Inf	ormation		·	<u>. —</u>			·
Hazardous Components (	Specific Chemical Id	dentity: Common N	ames(s)	OSHA PEL	ACGIHTL	Other Lir V Recomm		% (opti	ional)
	Propella	ant: n-butane		600 pp	om		54%		
	-	Isobutane	unknown	800 pp	m (estimate	ed only)	36%		
		Propane	1000 ppm	1000 p	pm		10%		
	Solvent:	SD Alcohol Dimethyl Ethe	1000 ppm er none e			blished 1,00	0 pm		
Hazard Rating Metho	od: HMIS He	ealth: 2 / Fire: 0/		4 = extreme y:0 / Other		· · · · · · · · · · · · · · · · · · ·			
Hazard Rating Metho	od: HMIS He	ealth: 2 / Fire: 0/		y:0/ Other		1)			D.963 - 1.15
Hazard Rating Metho  ECTION III - Physica  Boiling Point	od: HMIS He	ealth: 2 / Fire: 0/		y:0/ Other	: 0 Gravity (H ₂ O =	1)			0.963 - 1.150 N/A
Hazard Rating Methor  ECTION III - Physica  Boiling Point  Vapor Pressure (mm Hg.)	od: HMIS He	ealth: 2 / Fire: 0/	Reactivity	Specific Melting F	: 0 Gravity (H ₂ O =			S	
Hazard Rating Methor ECTION III - Physica Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1)	od: HMIS He	ealth: 2 / Fire: 0/	Reactivity N/A	Specific Melting F	Gravity (H ₂ O =			S	slow after propellant
Hazard Rating Methor  ECTION III - Physica  Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (AIR = 1)  Solubility in Water So	od: HMIS He	ealth: 2 / Fire: 0/	N/A N/A	Specific  Melting F  Evaporal	Gravity (H ₂ O =	!Acetate = 1)		S	N/A slow after propellant
Hazard Rating Method ECTION III - Physica Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water So	od: HMIS He  II / Chemical C  not deter  Dluble  Colorless to page	haracteristics mined ale yellow liquid	N/A N/A	Specific  Melting F  Evaporal	Gravity (H ₂ O = Point tion Rate (Buty	!Acetate = 1)		S	N/A slow after propellant
Hazard Rating Method ECTION III - Physica Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water So Appearance and Odor	od: HMIS He  II / Chemical C  not deter  Dluble  Colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the col	haracteristics mined ale yellow liquid	N/A N/A with	Specific  Melting F  Evaporal	Gravity (H ₂ O =	!Acetate = 1)	,	S	N/A slow after propellant
Hazard Rating Method ECTION III - Physica Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1)  Solubility in Water So Appearance and Odor ECTION IV - Fire and	od: HMIS He  II / Chemical C  not deter  Dluble  Colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the colorless to particular of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the col	haracteristics mined ale yellow liquid lazard Data ith flashback (s	N/A N/A with	Specific  Melting F  Evaporal	Gravity (H ₂ O =	i Acetate = 1)	,	S	N/A slow after propellant evaporation
Hazard Rating Method  ECTION III - Physica  Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (AIR = 1)  Solubility in Water So  Appearance and Odor  ECTION IV - Fire and  Flash Point (Method Used)  Extinguishing Media C	od: HMIS He  All / Chemical C  not deter  Colorless to part of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the col	haracteristics mined  ale yellow liquid lazard Data ith flashback (s	N/A N/A with	Specific ( Melting F Evaporal  characted sheet)	Gravity (H ₂ O =	i Acetate = 1)	,	S	N/A slow after propellant evaporation
Hazard Rating Method  ECTION III - Physica  Boiling Point  Vapor Pressure (mm Hg.)  Vapor Density (AIR = 1)  Solubility in Water So  Appearance and Odor  ECTION IV - Fire and  Flash Point (Method Used)	od: HMIS He  All / Chemical C  not deter  Colorless to particular of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of t	haracteristics mined  ale yellow liquid lazard Data ith flashback (s	N/A N/A with	Specific ( Melting F Evaporal  characted sheet)	Gravity (H ₂ O = Point lion Rate (Buty	i Acetate = 1)	,	S	N/A slow after propellant evaporation

(Reproduce Locally)

OSHA 174 Sept. 1985

MOR 000821



SECTION V - R	eactivity Data	l			· -				
Stability More	Unstable	table Conditions to Avoid:							
than 5 years	Stable	ole X Excessive heat, direct sunlight, freezing							
Incompatibility	(Materials to A	oid) S	strong acids and alkalies, organi	c solvents					
Hazardous Dec	omposition or By	produc	ts						
Hazardous	May Occur		Conditions to Avoid:						
Polymerization	Will Not Occu	r X	Strong acids and organic solv	ents. Excessive	heat, direct sunlight, freezing.				
SECTION VI - H	lealth Hazard	Data							
Route(s) of Entry	r: Inhalation	n? None	e Skin? No	one Ing	gestion? Yes				
Health Hazards (	Acute and Chro	nic) l	Jnknown	<u> </u>					
Carcinogenicity:	Unknown I	NTP?	ARC Monographs?	None	OSHA Regulated? None				
Signs and Symp	toms of Exposu	e							
May cause	skin irritation to	certai	n individuals due to sunscreens						
Medical Conditio	ns Generally Ag	gravate	d by Exposure		•				
Can cause s	skin irritation de	ue to so	me individuals due to suncreen	S					
Emergency and F	irst Aid Procedu	ıres							
Stop using	product and us	e lukew	arm water						
SECTION VII P	Precautions fo	r Safe I	Handling and Use						
Steps to be Take			···	, — 1 <u>— 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — </u>	······································				
Use excess	hot water and	deterge	ent. Clean and wipe area with c	oth.					
Waste Disposal N	Method: Use	hot wat	ter and detergent.						
Precautions to Be	Taken in Hand	ling and	Storing	·· — · · · · · · · · · · · · · · · · ·					
Avoid exces	s heat, freezing	and di	rect sunlight. Store at room ter	nperature.					
Other Precaution	\$	<del>-</del>							
Keep away f	rom fumes.								
SECTION VIII - (	Control Meası	ıres							
Respiratory Protec	tion (Specify	/Type) i	None if handling bulk product						
Ventilation	Local Ex	chaust	None	Special	None				
	Mechan	ical (Ge	neral) None	Other	None				
Protective Glove	<u>-</u> -		None	Eye Protection	Don't use into or near eyes				
Other Protective	Clothing or Equ	ipment	None	· · · · · · · · · · · · · · · · · · ·					
Mark/Hyganic Pray	ctices	None							

#### FOILLE PLUS MEDICATED FIRST AID SPRAY

(NDC 10157-4887-2) is flammable with Flashback (FB)

1/2" microflame 6" from flame is 6" FB
1/2" microflame 10" from flame is 2" FB
1/2" microflame 12" from flame is 1" FB
1/2" microflame 14" from flame is 1" FB
1/2" microlame 16" from flame is 0" FB

16" & beyond, flash is forward

Material Safety			NFPA Designat		Health (Blue)	Flammability (Red)
May be used to co	ompiy with ommunication Standard,			1 = Slight		Reactivity
	D, Standard must be		3 = High 2 = Moderate	0 = Insignifican	7 0	(Yellow)
consulted for spec	ific requirements.		•	Spec	ial Hazard	
IDENTITY (As Used on	Label and List)		Note: Blank spaces an	not permitted. If	any item it not applic	able, or no
STATGUARD* STA	TIC DISSIPATIVE FLOOR FINIS	SH	information is av	ailable,the space	must be marked to in	dicate that.
Section I						
Manufacturer's Name			Emergency Telephone	Number		
Charleswater						
	et, City, State, and Zip Code)		Telephone Number for	Information		
90 Hudson Road, Ca	inton, MA 02021		(617) 821-8370		<del></del>	
			Date Prepared 6-20-95			
			Signature of Preparer (	Optional)		<del></del> -
			<u> </u>	<del></del>	<del></del>	
	dous Ingrediants/Identity Info		OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Dipropylene Glycol	Monomethyl Ether (CAS #034590	-94-8)		100 ppm	150 ppm	3-4
<del></del>	thyl Ether (CAS #111-90-0)				30 ppm	2-3
Ammonia (CAS #76	<del>-ii</del>		NE	25 ppm	25 ppm	.01 max
This product contains	s the following toxic chemical sub p-Know Act of 1986 and of 40 CF		ting requirements of Se	ction 313 of th	e Emergency Plan	
Modified Acrylic Pol			, 2 10 11, 10 10 10, 10	<u>,, .</u>		35-40
Emulsified Waxes (N	ionHaz)	<del> </del>				5-10
						2-10
<del></del>					<del></del>	Balance
dH ₂ O (NonHaz)	Health: 1 Flammability: 0	Reactivity: Personal Prote	0 ection: B			
dH ₂ O (NonHaz) HMIS RATING:	Health: 1		=			
dH ₂ O (NonHaz) HMIS RATING: Section III - Physi	Health: 1 Flammability: 0		=	1)		
dH ₂ O (NonHaz)  HMIS RATING:  Section III - Physical Boiling Point	Health: 1 Flammability: 0 cal/Chemical Characteristics	>200°F	ection: B	1)		Balance
HMIS RATING: Section III - Physical Point  Papor Pressure (mm hg.	Health: 1 Flammability: 0 cal/Chemical Characteristics	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate	1)		>1.0
dH ₂ O (NonHaz)  HMIS RATING:  Section III - Physical Boiling Point  Vapor Pressure (mm hg.)  Vapor density (AIR = 1)	Health: 1 Flammability: 0 cal/Chemical Characteristics	>200°F	Specific Gravity (H ₂ O =	1)		Balance
dH ₂ O (NonHaz)  HMIS RATING:  Section III - Physical Point  Vapor Pressure (mm hg.  Vapor density (AIR = 1)	Health: 1 Flammability: 0 cal/Chemical Characteristics	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate	1)		>1.0 N/A
dH ₂ O (NonHaz)  HMIS RATING:  Section III - Physical Point  Vapor Pressure (mm hg. Vapor density (AIR = 1)  Solubility in Water  Complete, pH 8-9	Health: 1 Flammability: 0 cal/Chemical Characteristics	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate	1)		>1.0 N/A
dH ₂ O (NonHaz)  HMIS RATING:  Section III - Physical Point  Vapor Pressure (mm hg.)  Vapor density (AIR = 1)  Solubility in Water  Complete, pH 8-9  Appearance and Odor	Health: 1 Flammability: 0 cal/Chemical Characteristics	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate	1)		>1.0
HALLO (NonHaz)  HMIS RATING:  Section III - Physical Point  Apor Pressure (mm hg.  Apor density (AIR = 1)  Solubility in Water  Complete, pH 8-9  Appearance and Odor  Dengue, tan liquid w  Section IV - Fire a	Health: 1 Flammability: 0  cal/Chemical Characteristics )  ith wax or ammoniacal odor and Explosion Hazard Data	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate (Butyl Acetale = 1)	1)		>1.0
iH ₂ O (NonHaz)  IMIS RATING:  Section III - Physical Point  Apor Pressure (mm hg.  Apor density (AIR = 1)  Solubility in Water  Complete, pH 8-9  Appearance and Odor  Opaque, tan liquid w  Section IV - Fire a	Health: 1 Flammability: 0  cal/Chemical Characteristics )  ith wax or ammoniacal odor and Explosion Hazard Data	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate (Butyl Acetate = 1)	1)	LEL	>1.0
HAMIS RATING:  HMIS RATING:  Section III - Physical Point  Apport Pressure (mm hg. Apport density (AIR = 1)  Solubility in Water  Complete, pH 8-9  Appearance and Odor  Opaque, tan liquid w  Section IV - Fire a  liash Point (Method Usen)  VA	Health: 1 Flammability: 0  cal/Chemical Characteristics )  ith wax or ammoniacal odor and Explosion Hazard Data	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate (Butyl Acetale = 1)	1)	LEL	>1.0 N/A N/A
HAIS RATING:  HMIS RATING:  Section III - Physical Point  Apport Pressure (mm hg. Apport density (AIR = 1)  Solubility in Water  Complete, pH 8-9  Appearance and Odor  Deaque, tan liquid w  Section IV - Fire a  List Point (Method Use N/A  Extinguishing Media	Health: 1 Flammability: 0  cal/Chemical Characteristics  ith wax or ammoniacal odor  and Explosion Hazard Data  sd)	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate (Butyl Acetate = 1)	1)	LEL	>1.0 N/A N/A
HMIS RATING:  HMIS RATING:  Section III - Physical Point  Apport Pressure (mm hg.)  Apport density (AIR = 1)  Solubility in Water  Complete, pH 8-9  Appearance and Odor  Deaque, tan liquid w  Section IV - Fire a  Flash Point (Method Use N/A  Extinguishing Media  Foam, CO ₂ , DC and	Health: 1 Flammability: 0  cal/Chemical Characteristics  ith wax or ammoniacal odor  and Explosion Hazard Data  ad)	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate (Butyl Acetate = 1)	1)	LEL	>1.0 N/A N/A
dH ₂ O (NonHaz)  HMIS RATING:  Section III - Physical Point  Vapor Pressure (mm hg.)  Vapor density (AIR = 1)  Solubility in Water  Complete, pH 8-9  Appearance and Odor  Opaque, tan liquid w	Health: 1 Flammability: 0  cal/Chemical Characteristics  ith wax or ammoniacal odor  and Explosion Hazard Data  ad)	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate (Butyl Acetate = 1)	1)	LEL	>1.0 N/A N/A
dH ₂ O (NonHaz)  HMIS RATING:  Section III - Physis  Boiling Point  Vapor Pressure (mm hg.  Vapor density (AIR = 1)  Solubility in Water  Complete, pH 8-9  Appearance and Odor  Opaque, tan liquid w  Section IV - Fire a  Flash Point (Method Use  N/A  Extinguishing Media  Foam, CO ₂ , DC and  Special Fire Fighting Pro	Health: 1 Flammability: 0  cal/Chemical Characteristics  )  ith wax or ammoniacal odor  and Explosion Hazard Data  ed)  water  cedures	>200°F N/A	Specific Gravity (H ₂ O =  Melting Point  Evaporation Rate (Butyl Acetate = 1)	1)	LEL	>1.0 N/A N/A

Carcinogonicity: NTP? None None None None  Signs and Symptoms of Exposure: Inhalation: Minor irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Medical Conditions Generally Aggravated by Exposure Overexposure may aggravata Asthma.  Emergency and First Aid Procedures Inhalation: Move subject to fresh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomiting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use  Steps to Be Taken in Case Material is Released or Spilled  Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Naste Disposal Method  Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer. Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Precautions to be Taken in Handling and Storing  Storage temperature: Max. 49°C/120°F 1°C/34°F  Other Precautions  Keep from freezing - product may coagulate  Section VIII - Control Measures  Respiratory Protection (Specify Type)  Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Mechanical at point of contamination release  None  Mechanical (General)  Other	· <u>-</u> ·			Charleswater Statguard	Floor Finish, Page 2	
Temperatures above 49°C/120°F Below: 1°C/34°F  Stable X  Temperatures above 49°C/120°F Below: 1°C/34°F  NA  Hasardous Decomposition of phyrodocts  None known.  Hasardous Polymerization  Will Not Occur X  Section VI - Health Hazard Data  Roste(s) of Enty: Major and Chronic): None Known.  Health Hazard Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Known.  Health Hazards (Acute and Chronic): None Know	Section V - Re	activity Data			<del>-</del>	
Incompatibility (Materials to Avoid) N/A Hazardous Decomposition or Byproducts None known. Hazardous Decomposition or Byproducts None known. Hazardous May occur   Conditions to Avoid N/A Hazardous May occur   X  Section VI - Health Hazard Data Route(s) of Enry   Inhaisten? Sun? Ingestion? Minor Irritation Minor Irritation Dilute with water Health Hazards (Acute and Chronic): None Known None None None None None None None None None None None None None None None None None None None None None	Stability	Unstable	1	Conditions to Avoid		
incompatibility (Materials to Avoid) N/A  **Natural Decomposition or Byproducts None known.  **Natural Decomposition or Byproducts None known.  **Natural Decomposition or Byproducts None known.  **Natural Decomposition or Byproducts None known.  **Natural Decomposition or Byproducts None known.  **Section VI - Health Hazard Data  **Route(s) of Enty:  **Inhalation Minor Irritation Dilute with water  **Section VII - Byproducts None known  **Section VII - MacR Monographs?** None None None None  **Spra and Symptoms of Exposure:  **None None None None None  **Spra and Symptoms of Exposure:  **Inhalation: Minor irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  **Medical Conditions  **Section VII - Procedures  **Designs of First Ad Procedures  **Designs of First Ad Procedures  **Designs of Batterial Polysician. Eyes: Thish 15 minutes with water.  **Section VII - Procedures in Case Material is Released or Spiede  **Spra or Batterial Reputations for Safe Handling and Use  **Disps to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to Be Taken in Case Material is Released or Spiede  **Spray to B				Temperatures above 49	°C/120°F Below: 1°C/34°F	
Incompatibility (Materials to Airwell)  N/A  Hazardous Decomposition or Byproducts  None known.  Hazardous Decomposition or Byproducts  None known.  Hazardous May occur  Will Not Occur  X  Section VI - Health Hazard Data  Rose(s) of Entry.  Mill Not Occur  X  Section VI - Health Hazard Data  Rose(s) of Entry.  Mill Not Cornel;  None Known  Teamoponity:  None Known  None None  None  None  None  None  None  None  None  None  None  None  None  None  None  Overexposure may aggravata Asthma.  Inequatory and First Ad Procedures  Inhalation: Mill not irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Health Agravated by Exposure  Overexposure may aggravata Asthma.  Inequatory and First Ad Procedures  Inhalation: Move subject to fresh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomiting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use  Inequatory and First Add Procedures  Inhalation: Move of water.  Natio Disposal Method  Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretations for Safe Handling and Use  Interpretation for Safe Handling and Use  Interpretation for Safe Handling and Use  Interpretation for Safe Handling and Use  Interpretation for Safe Handling and Use  Interpr	_	Stable				
N/A Nataradous Decomposition or Byproducts None known.  Nataradous Polymerization Mil Not Occur X  Section VI - Health Hazard Data Rouse(s) of Enty: Mil Not Occur X  Section VI - Health Hazard Data Rouse(s) of Enty: Mil Not Occur X  Section VI - Health Hazard Data Rouse(s) of Enty: Mil Not Occur X  Section VI - Health Hazard Data Rouse(s) of Enty: Mil Not Occur X  Section VI - Health Hazard Data Rouse(s) of Enty: Mil Not Occur X  Section VI - Rac Monographs? Ochac Rouse Signs and Symptoms of Exposure Signs and Symptoms of Exposure Signs and Symptoms of Exposure Signs and Symptoms of Exposure Signs and Symptoms of Exposure Overexposure may aggravata Asthma.  Section None  Overexposure may aggravata Asthma.  Section VII - Precautions for Safe Handling and Use Signs as Set Taken in Case Material is Released or Spited Ceep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Natara Daposal Method Congulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer.  Protection VII - Protections and Storing Storage temperature: Max. 49°C/120°F 1°C/34°F None Precusions  Ceep from freezing - product may coagulate  Section VIII - Control Measures  Respirator Protection (Seady Type) Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Wechanical at point of contaminated diking material according to local, state, and federal regulations.  Protection (Seady Type) Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Wechanical at point of contamination release None Mechanical spland goggles (ANSI Z-87.1)  **Mere Protected Coheng or Equipment Systems Station N/A = Not Applicable; NE = None Established  N/A = Not Applicable; NE = None Established	Incompatibility (Adam	ninte to Austrill	1 X	<u> </u>		<del></del>
None known.  ***Rearrations**  May occur  Mill Not Occur  X  Section VI - Health Hazard Data  Roule(s) of Enhy:  Mill Not Occur  X  Section VI - Health Hazard Data  Roule(s) of Enhy:  Inhalation: Minor Irritation  Minor Irritation  Minor Irritation  Minor Irritation  Minor Irritation  Minor Irritation  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  No		eriais to Avoid)				
None known.  Section VI - Health Hazard Data  Route(s) of Entry: Inhalation Minor Irritation Minor Irritation Dilute with water  Health Hazards (Acute and Chronic):  None known  Signs and Symptoms of Exposure: Inhalation: Minor irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Health Hazards (Acute and Chronic):  None None None None  Signs and Symptoms of Exposure: Inhalation: Minor irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Headca: Conditiona  Control aphysician. Eyes: Flush 15 minutes with water.  Description Apply available by Exposure  Control aphysician. Eyes: Flush 15 minutes with water.  Section VII - Pracautions for Safe Handling and Use  Septs be Taken Lose Material is Released of Spine  Keep spectators away. Disk and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Natio Bogosial Method  Congulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer.  Internations to be Taken in Handling and Storing  Congulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer.  Natio Bogosial Method  Congulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer.  Natio Bogosial Method  Congulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer.  National State in Handling and Storing  Congulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer.  National State in Handling and Storing  Congulate the emulsion of material according to local, state, and federal regulations.  None  Mechanical spine of contamination release  None  Mechanical Space of Capetry Type)  National State of Capetry Type)  Natio	<del></del>	osition or Byproducts				
Section VI - Health Hazard Data  Route(s) of Entry:    Inhalation						
Section VI - Health Hazard Data  Route(s) of Entry:    Inhalation	Hazardous	May occur		Conditions to Avoid		
Section W - Health Hazard Data  Roule(s) of Entry:    Inhalation	Polymerization		Т.	N/A		
Route(s) of Entry: Inhalation? Minor Irritation Dilute with water  Health Hazards (Acute and Chronic): None known  Carcinogonicity: NTP? IARC Monographs? OSHA Regulated? None None None None  Signs and Symptoms of Exposure: None Known None  Minor Irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Medical Conditions Secretarly Aggravated by Exposure  Overexposure may aggravata Asthma.  Imregency and Fist Add Procedures Inhalation: Move subject to fresh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomiting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use  Seps to Be Taken in Case Material's Released or Spited (Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Natic Daposal Method Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supermatant liquid and flush to a chemical sewer.  Incinerate the solidis and the contaminated diking material according to local, state, and federal regulations.  Precautions to be Taken in Handling and Storing Storage temperature: Max. 49°C/120°F 1°C/34°F  Diver Precautions  Ceep from freezing - product may coagulate  Section VIII - Control Measures  Respiratory Protection (Speat) Type)  Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Mechanical at point of contamination release  None  Mechanical General)  Other  None  Mechanical General  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None  None	· •	Will Not Occur	x	ŧ		
Minor Irritation Minor Irritation Dilute with water  Health Hazards (Acute and Chronic): None known  Carcinoponicity: None None None  Signs and Symptoms of Exposure: None None  Signs and Symptoms of Exposure: None None  Signs and Symptoms of Exposure: None None  Signs and Symptoms of Exposure: None None  Signs and Symptoms of Exposure: None None  Signs and Symptoms of Exposure: Overexposure may aggravata Asthma.  Emergency and First Add Procedures Inhibitation: Minor Irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Medical Conditions  Secretion VII - Procedures Inhibitation: Move subject to fresh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomitting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Procautions for Safe Handlling and Use  Section VII - Procautions for Safe Handling and Use  Section VII - Procautions for Safe Handling and Use  Section VII - Procautions for Safe Handling and Use  Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Maste Disposal Method  Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatural liquid and flush to a chemical sewer. Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Procautions to be Taken in Handling and Storing  Storage temperature: Max. 49°C/120°F 1°C/34°F  Profession Security Procession (Specify Type)  Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Mechanical at point of contamination release None  Mechanical (General) Other  Protective Gloves  Imperious/Neoperne  View Protection  Mechanical gening of Exposured  Sylvawsh station  Vor. Applicable; NE = None Established	Section VI - He	alth Hazard Data	.1		3333	
Health Hazards (Acute and Chronic):  None known  Carcinoponicity:  NTP? None None None None None None None None	Route(s) of Entry:			Inhalation?	Skin?	Ingestion?
None known  Carcinoponicity: NTP7 None None None None None None None None				Minor Irritation	Minor Irritation	Dilute with water
None None None None  Signs and Symptoms of Exposure: Inhalation: Minor irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Medical Conditions  Generally Aggravated by Exposure  Overexposure may aggravata Asthma.  Emerepency and First Aid Procedures Inhalation: Move subject to fresh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomiting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use  Section VII - Precautions for Safe Handling and Use  Septs to Be Taken in Case Material is Released or Spiled  Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Makais Disposal Method  Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supermatant liquid and flush to a chemical sewer. Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Precautions to be Taken in Handling and Storing  Storage temperature: Max. 49°C/120°F 1°C/34°F  Diviner Precautions  Ceep from freezing - product may coagulate  Section VIII - Control Measures  Respiratory Protection (Specify Type)  Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Mechanical at point of contamination release  Mechanical splash goggles (ANSI Z-87.1)  Protective Gloves  mpervious/Neoprene  type Protection  Chemical splash goggles (ANSI Z-87.1)  Protective Cloring or Equipment  Syevash station  Nort/Hyplenic Practices  Wash hands before eating, smoking or using washroom facilities  N/A = Not Applicable; NE = None Established	Health Hazards (Acu None known	ite and Chronic):				
Signs and Symptoms of Exposure: Inhalation: Minor irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Medical Conditions Generally Aggravated by Exposure  Overexposure may aggravata Asthma.  Emergency and First Aid Procedures Inhalation: Move subject to fresh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomiting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use Sieps to Be Taken in Case Material is Released or Spiled Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Nate Disposal Method Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supermatant liquid and flush to a chemical sewer.  Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Storage temperature: Max. 49°C/120°F 1°C/34°F  Diver Procedutors  Keep from freezing - product may coagulate  Section VIII - Control Measures  Respiratory Protection  Mechanical at point of contamination release  Mechanical Aphan goggles (ANSI Z-87.1)  Diver Protective Gloves  mpervious/Neoprene  iye Protective Clothing or Equipment  Yewash Station  Nort/Phylenic Practices  Nash hands before eating, smoking or using washroom facilities  N/A = Not Applicable; NE = None Established	Carcinogonicity:			NTP?	IARC Monographs?	OSHA Regulated?
Inhalation: Minor irritation. Skin: Slight irritation. Eyes: Slight irritation. Ingestion: None known.  Medical Conditions  Overexposure may aggravata Asthma.  Emergency and First Aid Procedures Inhalation: Move subject to firesh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomiting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use Sieps to Be Taken in Case Material is Released or Spilled  Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Natic Disposal Method  Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supermatant liquid and flush to a chemical sewer.  Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Precautions to be Taken in Handling and Storing Storage temperature: Max. 49°C/120°F 1°C/34°F  Dither Procedutors  Keep from freezing - product may coagulate  Section VIII - Control Measures  Respiratory Protection (Specify Type)  Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Mechanical at point of contamination release  Mechanical al point of contamination release  Mechanical splash goggles (ANSI Z-87.1)  Dither Protective Clothing or Equipment  Eyewash station  Nort/Physienic Practices  Nash hands before eating, smoking or using washroom facilities  N/A = Not Applicable; NE = None Established				None	None	None
Overexposure may aggravate Asthma.  Emergency and First Aid Procedures Inhalation: Move subject to fresh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomiting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use  Seption VII - Precautions for Safe Handling and Use  Sieps to Be Taken in Case Material is Released or Spilled  Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Nasta Disposal Method  Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer. Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Precautions to be Taken in Handling and Storing  Storage temperature: Max. 49°C/120°F 1°C/34°F  Diver Procautions  Keep from freezing - product may coagulate  Section VIII - Control Measures  Respiratory Protection (Specity Type)  Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Mechanical at point of contamination release  Mechanical splash goggles (ANSI Z-87.1)  There Protection  Chemical splash goggles (ANSI Z-87.1)  There Protection  Chemical splash goggles (ANSI Z-87.1)  There Protection  Non- Established	Inhalation: Minor	•	ht irrita	ation. Eyes: Slight irritation	. Ingestion: None known.	
Inhalation: Move subject to fresh air. Skin: Wash with soap and water. Ingestion: Drink several glasses of water (do not induce vomiting Contact a physician. Eyes: flush 15 minutes with water.  Section VII - Precautions for Safe Handling and Use Siteps to Be Taken In Case Material is Released or Spilled Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Naste Disposal Method Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer. Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Precautions to be Taken in Handling and Storing Storage temperature: Max. 49°C/120°F 1°C/34°F  Diber Precautions Keep from freezing - product may coagulate  Section VIII - Control Measures Respiratory Protection (Specity Type) Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Mechanical at point of contamination release  Mechanical Special None  Mechanical (General)  Other  Protective Gloves  Impervious/Neoprene  Special None  Other  Other  None  None  None  None  None  Nort/Hypienic Practices  Wash hands before eating, smoking or using washroom facilities  N/A = Not Applicable; NE = None Established		d by Exposure		Overexposure may aggra-	vata Asthma.	
Steps to Be Taken in Case Material is Released or Spilled Keep spectators away. Dike and contain spill with inert material (e.g. sand, earth). Keep spills and cleaning runoffs out of municipal sew and open bodies of water.  Naste Disposal Method Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer. Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Proceautions to be Taken in Handling and Storing Storage temperature: Max. 49°C/120°F 1°C/34°F  Ditter Precautions Keep from freezing - product may coagulate  Section VIII - Control Measures Respiratory Protection (Specify Type) Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Mechanical at point of contamination release  Mechanical (General)  Other  Protective Gloves  Impervious/Neoprene  Type Protection Chemical splash goggles (ANSI Z-87.1)  Ditter Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing or Equipment  Type Protective Clothing o	Contact a physicia	an. Eyes: flush 15 m	inutes v	with water.	agoston. Drink several glasses	or water (as not model voluming,
Naste Disposal Method Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer. Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Percautions to be Taken in Handling and Storing Storage temperature: Max. 49°C/120°F 1°C/34°F  Dither Precautions Keep from freezing - product may coagulate  Section VIII - Control Measures Respiratory Protection (Specify Type) Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Fertilation  Local Exhaust Mechanical at point of contamination release Mechanical (General)  Other  Protective Glows Impervious/Neoprene Seye Protection Chemical splash goggles (ANSI Z-87.1)  Other Protective Clothing or Equipment Seyewash station Nork/Hygienic Practices Wash hands before eating, smoking or using washroom facilities  N/A = Not Applicable; NE = None Established	Steps to Be Taken In	Case Material is Relea	sed or S	pilled	nd, earth). Keep spills and clean	ing runoffs out of municipal sewe
Coagulate the emulsion by the stepwise of Ferric Chloride and Lime. Remove the clear supernatant liquid and flush to a chemical sewer. Incinerate the solids and the contaminated diking material according to local, state, and federal regulations.  Precautions to be Taken in Handling and Storing  Storage temperature: Max. 49°C/120°F 1°C/34°F  Other Precautions  Keep from freezing - product may coagulate  Section VIII - Control Measures  Respiratory Protection (Specify Type)  Wear MSHA/NIOSH-approved respirator where exposure limits are exceeded.  Vertilation  Local Exhaust Mechanical at point of contamination release  Mechanical (General)  Other  Protective Gloves  Impervious/Neoprene  Sye Protection  Chemical splash goggles (ANSI Z-87.1)  White Protective Clothing or Equipment  Syewash station  Nork/Hygienic Practices  NA = Not Applicable; NE = None Established	and open bodies o	of water.				
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Local Exhaust   Mechanical at point of contamination release   None	•		ator wh	ere exposure limits are exce	æded.	
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Eyewash station  Vork/Hygienic Practices  Vash hands before eating, smoking or using washroom facilities  N/A = Not Applicable; NE = None Established			1)		<del>-</del>	
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N/A = Not Applicable; NE = None Established						
	Wash hands before	e eating, smoking or	using v	vashroom facilities		
CHARLESWATER . ON HUNSON ROAD CANTON MA 02024 . (847) 824-8270 . FAY (817) 575-0172				N/A = Not Applicable; N	E = None Established	
VINILESTMIER " 30 HUUVVII INVID. VINI IVII, MY UZUZI " [0 H 0 A 1 40 H 0 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H 1 H		CHARLESWATER	90 HL	JDSON ROAD, CANTON, N	IA 02021 • (617) 821-8370 • F	FAX (617) 575-0172

MATERIAL SAFETY DATA SHEET REV. 2 NO. 1131
MILTICORE SOLDERS, INC.
DATE PREPARED: APRIL 8,1991
MIN BL R., NORREN, IL 7001 DETENDIO: 214-221-12N

BESSENCY: (800-121-200) OLY DI THE EVENT OF CHEMICAL EXERECTES DIVILYING A SPILL, LERK, FIRE, EXPOSURE, OR ACCIDENT DIVILYING CHEMICALS.

N.P.P.A. / HEALTH: 1 PIRE: 3 REACTIVITY: 0 MEMER: REEXI L. SILERI/TECHNOL MANGER
TRANSPORTATION J.G.T. PROPER SHIPPING MAYER MESTIL SELLITION J.G.T. MANGE CLASS: FLAMMERE LIGHTS
REQUIREMENTS UVM CODE: DUISSE J.G.T. LARLE REMIREDE FLAMMERE MOXING STORTS II

IDENTITY: (NOS 1516 COVES ALL OF THE FOLLOWING PRODUCTS): CHEMICAL(8)

X32-10m (BA0010) HALIDE FREE NO RESIDUE PLUX SECTION I GAZASSUS RESEDERS / REXITY DETENTION

MAZAROOUS COPPORATS	CAS, NUMBER	ISA FIL	ACSIN R.V	SARA 313 PERCON
I SOPROPANOL METHANOL	67-63-0 67-56-1	400 ppm 200 ppm(skin)	400 ppm 200 ppm(skin)	40-50 40-50
BECTION	T T OWNS COLUDERIOR OF PRACTERIS	TIC)		
BOILING POINT:	(F) 148-177 o	SPECIFIC GRAVITY (	WATER=1): (25 C	.81
VAPOR PRESS. VAPOR DENSIT	RE(mm Hg.) 668 F 64 Y(AIR=1): 1.6	PERCENT VOLATILE	: BY VOLUMB: RATION RATE GUINL ACTAI	97 E)= ) 1.8

VAPOR DENSITY(AIR=1):

1.6 EVAPORATION RATE OUTLINESS APPEARANCE AND ODOR: CLEAR, HOBILE LIQUID WITH ALCOHOLIC ODOR.

SOLUBILITY IN WATER: SOLUBLE

SECTION III STE NO DRUSTON HUMO INTO

FLASH POINT (HETHOD USED): 55 F (ACC) FLANNAHLE LIMITS: LE 3 LE 24 ETIDEMSHDE HEUL CARBON DIOXIDE, ALCOHOL RESISTANT FORM, DRY CHENICAL

STEIN FOR FIGURE HOUSES! EVACUATE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR PROTECTIVE CLOTHING, INCLUDING NIOSH APPROVED SELF-CONTAINED BREATHING APPRATUS.

PLEAR FIRE NO EPILISIUI WILKIS NONE KNOWN

SECTION IV CACHININ MIN

STABLE? NO STABLE? YES

COOKING IN ACTA AVOID HEAT, SPARKS, OPEN PLANES.

DESPATIBILITY CATERIAS IN ADDID STRONG OXIDIZERS

<u>Mustus etopisitai a regulta</u> carbon honoxide, carbon dioxide

NAMED AND PARTIES HAY OCCUR? NO WILL NOT OCCUR? YES

COOTTOS TO MOTE: HOME KNOWN

M/A - NOT APPLICABLE

#### PAGE 2 OF 2

#### SECTION Y GELTH HUND MIND

RBY. 2

No. 1131

notes of dirtic inhalation? Yes skin no insertion? Yes stick none

#### NEALTH HAZAROS LACUTE AND CHROCOCY

MONELLIQUID OR VAPOR CONTACT MAY CAUSE IRRITATION OF THE EYES, SKIN, MOSE, THROAT, AND RESPIRATORY SYSTEM AND MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. THIS MATERIAL IS TOXIC AND MAY BE HARMFUL IF SWALLOWED. OFFICE PROLONGED CONTACT WITH THE SKIN MAY CAUSE RECNESS, DRYING AND CRACKING TO THE SKIN. PROLONGED OVEREXPOSURE TO SOLVENTS MAY CAUSE PERMANENT BRAIN AND NERVOUS DANAGE.

<u>ORCHOEDICITY:</u> NTP? NO IAC NUMBERAYS? NO SHA REGULATED? NO STHER: NONE NO INGREDIENTS LISTED AS CARCINOGENS.

#### \$196 MO SYMPTON OF EDPORAGE

IRRITATION, HEADACHE, DIZZINESS, HAUSEA, INCOORDINATION, DROWSINESS AND LOSS OF CONSCIOUSNESS.

#### MEDICAL CONDITIONS EDIERALLY ASSESSMED BY EXPOSURE

MONE PRESENTLY KNOW.

#### BENEDCY NO FIRST ALD MICERIAES

EVEN: FLUSH WITH COPIOUS QUANTITIES OF WATER. GET HEDICAL ATTENTION.

SKIN: WASH WITH SOAP AND WATER. INWANION: REMOVE FROM EXPOSURE.

GET HEDICAL ATTENTION IF EXPERIENCING EFFECT OF OVEREXPOSURE. INSTITUTE
GET IMPEDIATE HEDICAL ATTENTION. INDUCE VOMITING BY TOUCHING PINCER TO BACK
OF THROAT. KEEP VICTIM'S BEAD BELOW HIPS WHILE VOMITING.

#### SECTION VI PREDUTIDE TO SATE HACINE NO USE

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELOKED OR SPILLED

BILIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROWDED TO PREVENT SPARKING. EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. ABSORB SPILLED MATERIAL WITH ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINER.

#### WISTE DISPOSAL PETHODS

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, FEDERAL REGULATIONS. RECOMMENDED METHOD IS INCINERATION.

#### PREDILITIONS TO BE TAKEN IN WHICLING MO STURING

Keep away from heat, sparks, and open flames. Keep containers tightly closed. Ground all handling equipment. Store in a cool, dry place.

THER MEDITIOG: MINITHIZE SKIN CONTACT.

### SECTION VII (COMMA MERCES)

#### ESPIPATORY PROTECTION (SPECIFY TIPO)

IF EXPOSURE EXCEEDS LIMITS, USE A MIOSH-APPROVED RESPIRATOR.

#### VENTILATION: LOCAL EXHAUST: PREPERABLE

SPECIAL:

NONE NEEDED

MECHANICAL (GENERAL): ADEQUATE

OTHER:

NONE NEEDED

PROTECTIVE GLASS: NEOPREMB, VITON, BUTYL, MITRILE ME PROTECTION: CHEMICAL GOOGLES

#### OTHER PROTECTIVE CLOTHING OR EXPLANEIG:

NEAR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. SAFETY SHOWER AND EVE WASH STATION.

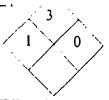
#### MORCHAGIDUIC PRACTICES:

wash with soap and water before eating, drinking, shoking, or using toilet pacilities.



## **alpha**metals

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### SECTION I GENERAL INFORMATION

PRODUCT NAME (NUMBER)

Lonco SLS 65 Flux

CHEMICAL FAMILY D.O.T. HAZARD CLASS

Mixture. Flammable liquid. 1404/224256 RT# 113271 8-21-97

### SECTION II HAZARDOUS INGREDIENTS

INGREDIENTS	CAS	WEIGHT	OSHA	ACGIH
	NUMBĘR	PERCENT	PEL	TLV
Isopropyl Alcohol(2-Propanol)	67-63-0	90-92	400 ppm Stel 500 ppm St	400 ppm
Aliphatic Dibasic Ester	1 1 1 9 - 4 0 - 0	<3.0	NE	NE
Dicarboxylic Acids	6 8 9 3 7 - 7 2 - 4	<2.5	NE	NE

### SECTION III PHYSICAL DATA

(PUBLISHED OR ESTIMATED VALUES)

108.0 SPECIFIC GRAVITY 180 BOILING POINT Deg F. (H2O=1) (@ 77 deg F) (760 mm Hg) & VOLATILE BY WEIGHT 90-92 30 VAPOR PRESSURE **EVAPORATION RATE** 2.3 tmm Hg at 20 Deg. C.) (BUAC=1) VAPOR DENSITY (AIR=1) >2 pH (5% aqueous soln.) 3.4 SOLUBILITY IN WATER Appreciable Clear, colorless liquid, alcohol odor. APPEARANCE AND ODOR

### SECTION IV. FIRE AND EXPLOSION HAZARD DATA

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air)

LEL: 2.0

UEL: 12.7

FLASH POINT Deg F.

53 closed cup.

EXTINGUISHING MEDIA

Alcohol type or all-purpose-type foam for large fires. Carbon dioxide or dry chemical media for small fires. Use NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire exposed containers

with water.

UNUSUAL FIRE AND EXPLOSION HAZARD

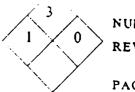
SPECIAL FIRE

FIGHTING PROCEDURES

Vapors are heavier than air and may travel along ground. Never use welding torch on or near containers (even empty). May produce a floating fire hazard.



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Lonco SLS 65 Flux

### SECTION V.(A) HEALTH HAZARD DATA (Symptoms/Ellects Of Overexposure)

INHALATION: Can cause irritation of the respiratory tract with coughing and

chest discomfort. High concentrations of vapor may cause

headache and drowsiness.

Slightly toxic. May cause abdominal discomfort, nausea, INGESTION:

vomiting and diarrhea. Drowsiness and/or loss of consciousness

may occur.

SKIN: May cause minor irritation with itching and possible slight local redness. Prolonged or repeated contact may cause defatting and drying. Absorption; exposure to small quantities are not anticipated to cause adverse health effects. Widespread and prolonged exposure may result in the absorption of harmful amounts of material, leading to signs and symptoms as described for ingestion.

EYES: Causes irritation, may cause corneal injury.

LISTED CARCINOGENS: None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

# SECTION V.(B) HEALTH HAZARD DATA Emergency and First Aid Procedures)

Remove to fresh air. If not breathing give artificial respira-INHALATION

tion. If breathing is difficult administer oxygen. Obtain

medical attention.

If fully conscious give two glasses of water, INDUCE vomiting. INGESTION

Never give anything by mouth to an unconscious person.

SKIN

Remove contaminated clothing. Wash with soap and water. If irritation persists or if contact has been prolonged obtain CONTACT

medical attention.

EYE

Immediately flush with water for several minutes. Obtain

CONTACT medical attention.

### SECTION VIEREACTIVITY DATA

STABILITY

HAZARDOUS

CONDITIONS Heat, sparks and open flames.

STABLE: X UNSTABLE:

TO AVOID

INCOMPATABILITY (Materials to Avoid) Strong oxidizing agents.

Burning can produce carbon monoxide and/or carbon

DECOMPOSITION PRODUCTS dioxide.

HAZARDOUS POLYMERIZATION

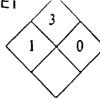
CONDITIONS WILL OCCUR: WILL NOT OCCUR: X TO AVOID None



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Lonco SLS 65 Flux

# SPHEL OR INFARENCED UNES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ventilate if in enclosed area. Eliminate all ignition sources. SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to hood.

LARGE SPILL: See Section X. Destroy by approved incineration or deposit in approved landfill. WASTE DISPOSAL

> Must be in accordance with Federal, State and Local Laws and Regulations

## SECTIONSVIII SPECIAL PROTECTION WITH THE SPECIAL PROTECTION

No special requirements with adequate ventilation present, RESPIRATORY

approved respiratory protective equipment used when vapor or

mist concentrations exceed applicable standards.

Chemical type protective goggles. EYEWEAR

Provide eye bath near work site.

Wear resistant gloves such as rubber, neoprene or plastic. CLOTHING/

**GLOVES** 

Provide sufficient mechanical (general and/or local exhaust) **VENTUATION** 

ventilation to maintain exposure below TLVs.

## SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Observe precautions for a flammable liquid. Keep container closed when not in use. Store away from ignition sources in cool dry area. Use adequate ventilation. Read all container labeling.

Avoid the use of metal drum spigots. Use Polyethylene, Polypropylene or Teflon.

#### OTHER PRECAUTIONS:

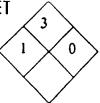
Containers: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. FOR INDUSTRIAL USE ONLY.
KEEP OUT OF REACH OF CHILDREN. DO NOT
TAKE INTERNALLY.



MATERIAL SAFETY DATA SHEET

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Lonco SLS 65 Flux

### SECTION X ADDITIONS INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: (continued) LARGE SPILL:

Persons not wearing protective equipment should be excluded from area. Dike area of spill to prevent spreading. Pump liquid to salvage tank. Take up remaining liquid with absorbent material. Shovel into containers.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

---- REGULATORY INFORMATION ----

Toxic Substance Control Act (TSCA) Status: All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III (Section 313):

Components present in this product at a level which could require reporting under the statute are: None

MOR 000831

CMCROCN CYCLE CERT (IN ENUMBER

CHEMTREC

1-800-424-9300

DAY OR NIGHT

The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated.





GASOLINES (LEAD-FREE) Covers all Amoco lead-free gasolines, including t

MATERIAL SAFETY DATA SHEET

MSDS No. 09748000 ENGLISH

PRODUCT NAME: GASOLINES (LEAD-FREE)

MANUFACTURER/SUPPLIER:

Amoco Oil Company 200 East Randolph Drive Chicago, Illinois 60501 U.S.A.

EMERGENCY HEALTH INFORMATION: 1 (800) 447-8735 EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA) OTHER PRODUCT SAFETY INFORMATION: (830) 836-544

(630) 836-5441

Rec. 8/17/99

#### 2.8 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS=	Range I by Wt.	
Gasoline Benzene Butane Cyclohexane Ethylbenzene Heptane Hexane Pentane Toluene Trimethylbenzene Xylene Methyl tertiary butyl ether (MTBE)	8006-61-9 71-43-2 106-97-8 110-82-7 100-41-4 142-82-5 110-54-3 109-66-0 108-88-3 95-63-6 1330-20-7 1634-04-4	00-100 1-4 1-12 1-5 1-2 1-2 1-5 1-10 1-22 1-7 1-10 0-18	
Ethanol (ethyl alcohol)	64-17-5	0-10	
Ethyl tertiary butyl ether	637-92-3	0-21	
Tert-amyl methyl ether (TAME)	994-05-8	0-20	
Isopentane Naphthalene (See Section 8.0, "Expos	78-78-4 91-20-3 sure Controls/Personal sure guidelines)	1-20 0-1.1 Protection", for exp	0-

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#### 3.0 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Danger! Extremely flammable. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. Harmful if swallowed and/or aspirated into the lungs. Prolonged or repeated contact may cause irritation and/or dermatitis. Use as motor fuel only. Long-term exposure to vapors has caused cancer in laboratory animals. POTENTIAL HEALTH EFFECTS:

EYE CONTACT: High concentrations of vapor/mist may cause eye discomfort.

SKIN CONTACT: Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. See "Toxicological Information" section (Section 11.0).

Harmful or fatal if liquid is aspirated into lungs. Ingestion causes gastrointestinal irritation and diarrhea. See "Toxicological Information" section (Section 11.0).

HMIS CODE: (Health:1) (Flammability:3) (Reactivity:0) CHRONIC HEALTH

HAZARD.

NFPA CODE: [Health:1] (Flammability:3) (Instability:0)

#### 4.0 FIRST AID MEASURES

EYE: Flush eyes with plenty of water. Get medical attention if irritation persists.

IN: Wash exposed skin with soap and water. Remove contaminated clothing, including shoes, and thoroughly clean and dry before reuse. Get medical attention if irritation develops.

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get medical attention.

INGESTION: If swallowed, do NOT induce vomiting. Get immediate medical attention.

Issued: July 16, 1999

8-17-99 8:52am

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GASOLINES (LEAD-FREE) MSDS No. 09748000

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#### 5.0 FIRE FIGHTING MEASURES

FLASHPOINT: -45'

UEL: 7.6% 1EL: 1.3%

AUTOIGNITION TEMPERATURE: 495.0'

FLAMMABILITY CLASSIFICATION: Extremely Flammable Liquid.

EXTINGUISHING MEDIA: FINGUISHING MEDIA: Agents approved for Class B hazards (e.g., dry chemical, carbon dioxide, foam, steam) or water fog. Water may be ineffective but should be used to cool-fire exposed containers, structures and to protect personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable vapor/air mixtures form. Extinguishment of fire before source of vapor is shut off can create an explosive mixture in air. Product gives off vapors that are heavier than air which can travel considerable distances to a source of ignition and flashback. Runoff to sever may cause a fire or explosion hazard.

FIRE-FIGHTING EQUIPMENT: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

ECAUTIONS: Keep away from sources of ignition (e.g., heat and open flames). Keep container closed. Use with adequate venti-

HAZARDOUS COMBUSTION PRODUCTS: Combustion of this product in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., carbon monoxide, carbon dioxide) and inadequate oxygen levels.

#### 

#### 6.0 ACCIDENTAL RELEASE MEASURES

Remove or shut off all sources of ignition. Wear respirator and spray with water to disperse vapors. Increase ventilation if possible. Prevent spreading by diking, ditching, or absorbing on inert materials. Keep out of sewers and waterways.

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GASOLINES (LEAD-FREE) MSDS No. 09748000

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### 7.0 HANDLING AND STORAGE

HANDLING: Use with adequate ventilation. Keep away from ignition sources (e.g., heat, sparks, or open flames). Ground and bond containers when transferring materials. Wash thoroughly after handling.

STORAGE: Store in flammable liquids storage area. Keep container closed. Store away from heat, ignition sources, and open flame in accordance with applicable regulations.

SPECIAL PRECAUTIONS: Keep out of sewers and waterways. Avoid strong oxidizers. Report spills to appropriate authorities. USE AS MOTOR FUEL ONLY.

#### 8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE: None required; however, use of eye protection is good industrial practice.

SKIN: Avoid prolonged or repeated skin contact. Wear protective clothing and gloves if prolonged or repeated contact is likely.

INHALATION: Use with adequate ventilation. Avoid breathing vapor and/or mist. If ventilation is inadequate, use NIOSH certified respirator that will protect against organic vapor and dust/mist.

ENGINEERING CONTROLS: Control airborne concentrations below the exposure guidelines.

#### **EXPOSURE GUIDELINES:**

Component	CAS=	Exposure Limits
Gasoline	9006-61-9	OSHA PEL: 300 ppm (1989); Not established. (1971) OSHA STEL: 500 ppm (1989); Not established. (1971) ACGIH TLV-TWA: 300 ppm ACGIH TLV-STEL: 500 ppm
Benzene	71-43-2	OSHA PEL: 1 ppm OSHA STEL: 5 ppm ACGIH TLV-TWA: 0.5 ppm (skin) ACGIH TLV-STEL: 2.5 ppm (skin) Mexico TWA: 10 ppm Mexico STEL: 25 ppm

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**EXPOSURE GUIDELINES:** 

Butane

106-97-8

OSHA PEL: 800 ppm (1989); Not established. (1971) ACGIH TLV-THA: 800 ppm Mexico THA: 800 ppm

Cyclohexane

110-82-7

OSHA PEL: 300 ppm (1989)(1971) ACGIH TLV-TWA: 300 ppm Mexico TWA: 300 ppm Mexico STEL: 375 ppm

Ethylbenzene

100-41-4

OSHA PEL: 100 ppm (1989)(1971)
OSHA STEL: 125 ppm(1989); Not
established. (1971)
ACGIH TLV-TWA: 100 ppm
ACGIH TLV-STEL: 125 ppm
Mexico TWA: 100 ppm
Mexico STEL: 125 ppm

Heptane

OSHA PEL: 400 ppm (1989); 500 142-82-5

ppm (1971) OSHA STEL: 500 ppm (1989); Not established. (1971) ACGIH TLV-TWA: 400 ppm ACGIH TLV-STEL: 500 ppm Mexico TWA: 400 ppm (skin) Mexico STEL: 500 ppm (skin)

Hexane

110-54-3 OSHA PEL: 50 ppm (1989); 500 ppm

(1971) ACGIH TLV-THA: 50 ppm (skin)

Mexico THA: 100 ppm

Pentane

109-66-0

OSHA PEL: 600 ppm (1989); 1000 ppm (1971) OSHA STEL: 750 ppm (1989); Not established. (1971)

ACGIH TLV-THA: 600 ppm Mexico THA: 600 ppm Mexico STEL: 760 ppm

Toluene

OSHA PEL: 100 ppm (1989); 200 ppm (1971) 100-88-3

OSHA STEL: 150 ppm (1989); Not established. (1971)

OSHA Ceiling: 300 ppm (1971) ACGIH TLV-TWA: 50 ppm (skin)

Mexico TWA: 100 ppm Mexico STEL: 150 ppm

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EXPOSURE (	GUIDELINES:
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OSHA PEL: 25 ppm (1989); Not established. (1971) ACGIH TLV-TWA: 25 ppm Mexico TWA: 25 ppm 95-63-6 Trimethylbenzene Mexico STEL: 35 ppm OSHA PEL: 100 ppm (1989)(1971)
OSHA STEL: 150 ppm (1989); Not
established. (1971)
ACGIH TLV-TWA: 100 ppm
ACGIH TLV-STEL: 150 ppm
Mexico TWA: 100 ppm (skin)
Mexico STEL: 150 ppm (skin) Xylene 1330-20-7 Methyl tertiary butyl ether (MTBE) 1634-04-4 ACGIH TLV-TWA: 40 ppm OSHA PEL: 1000 ppm (1989)(1971) ACGIH TLV-TWA: 1000 ppm Mexico TWA: 1000 ppm 64-17-5 Ethanol (ethyl alcohol) 637-92-3 No exposure limit established Ethyl tertiary butyl ether

78-78-4

Tert-amyl methyl ether (TAME)

994-05-8 No exposure limit established

Naphthalene

Isopentane

ACGIH TLV-THA: 600 ppm 91-20-3

OSHA PEL: 10 ppm (1989)(1971)
OSHA STEL: 15 ppm (1989); Not
established. (1971)
ACGIH TLV-TWA: 10 ppm
ACGIH TLV-STEL: 15 ppm
Mexico TWA: 10 ppm
Mexico STEL: 15 ppm

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### 9.0 CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Clear. Liquid. Hydrocarbon odor.

pH: Not determined.

VAPOR PRESSURE: 7-15 1b RVP (ASTM D323)

VAPOR DENSITY: 3.0-4.0

BOILING POINT: 80.0-430.0'F (range)

MELTING POINT: Not determined.

SOLUBILITY IN WATER: Negligible, below 0.1%

SPECIFIC GRAVITY (WATER=1): 0.75

#### TARGET TO BE CONTROL TO AND DESCRIPTIVE

10.0 STABILITY AND REACTIVITY

STABILITY: Burning can be started easily.

CONDITIONS TO AVOID: Keep away from ignition sources (e.g. heat, sparks, and open flames).

MATERIALS TO AVOID: Avoid chlorine, fluorine, and other strong oxidizers.

HAZARDOUS DECOMPOSITION: None identified.

HAZARDOUS POLYMERIZATION: Will not occur.

### 11.0 TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY DATA:

EYE IRRITATION: This product had a primary eye irritation score (PEIS) of 0/110.0 (rabbit)

SKIN IRRITATION: This product had a primary skin irritation score (PDIS) of 1.1/0.0 (rabbit)

DERMAL LD50: greater than 5 ml/kg (rabbit).

ORAL LD50: 18.8 ml/kg (rat).

INHALATION LC50: 20.7 mg/l (rat)

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#### OTHER TOXICITY DATA:

Excess exposure to vapors may produce headaches, dizziness, nausea, drowsiness, irritation of eyes, nose and throat and central nervous system depression. Aspiration of this material into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Inhalation of unleaded gasoline vapors did not produce birth defects in laboratory animals. Ingestion of this material can cause gastrointestinal irritation and diarrhea.

In a long-term inhalation study of whole unleaded gasoline vapors, exposure-related kidney damage and kidney tumors were observed in male rats. Similar kidney effects were not seen in female rats or in mice. At the highest exposure level (2056 ppm), female mice had an increased incidence of liver tumors. Results from subsequent scientific studies have shown that a broad variety of chemicals cause these kidney effects only in the male rat. Further studies have discovered the means by which the physiology of the male rat uniquely predispose it to these effects. Consequently, the Risk Assessment forum of the Environmental Protection Agency has recognized that these responses are not predictive of a human health hazard. The liver tumors that were increased in the high-dose female mice are likewise of questionable significance because of their high spontaneous occurrence even without chemical exposure and because the rate of their occurrence is accelerated by a broad spectrum of chemicals not commonly considered to be carcinogens (e.g., phenobarbital). Thus, the significance of the mouse liver tumor response in terms of human health is questionable.

Gasoline is a complex mixture of hydrocarbons and contains benzene (typically no more than 2 volume%), toluene, and xylene. Chronic exposure to high levels of benzene has been shown to cause cancer (leukemia) in humans and other adverse blood effects (anemia). Benzene is considered a human carcinogen by IARC, NTP and OSHA. Over exposure to xylene and toluene can cause irritation to the upper respiratory tract, headache and narcosis. Some liver damage and lung inflammation were seen in chronic studies on xylene in guinea pigs but not in rats.

Solvent "sniffing" (abuse) or intentional overexposure to vapors can produce serious central nervous system effects, including unconsciousness, and possibly death.

This product contains/may contain methyl tertiary-butyl ether (MTBE). In a long-term inhalation study with laboratory rodents, very high exposures (>3000 ppm) to MTBE produced liver and kidney tumors. Both IARC and NTP do not consider these data sufficient for classification of MTBE as a probable human carcinogen. MTBE has produced developmental toxicity to the offspring of mice, but only at maternally toxic concentrations (>4000 ppm). Similar studies in rats and rabbits were negative.

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This product contains/may contain ethyl tertiary-butyl ether (ETBE). In rats exposed by inhalation to ETBE, testicular degeneration was observed in males and bone marrow degeneration was observed in females that were exposed to 1750 and 5000 ppm for 90 days. Neither effect was seen at 500 ppm. Slight blood and organ weight changes have been observed in rats following 20-day inhalation exposure to ETBE at 2000 ppm and higher.

This product contains/may contain tertiary-amyl methyl ether (TAME). Chronic inhalation exposure of rats and mice to high levels of TAME (250-3500 ppm) for 90 days resulted in slight blood and organ weight effects. However, these were either transient during the exposure period, or reversible after exposure ceased.

### 12.0 ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this material by 8P Amoco.

#### 13.0 DISPOSAL INFORMATION

Residues and spilled material are hazardous waste due to ignitability. Disposal must be in accordance with applicable federal, state, or local regulations. Enclosed-controlled incineration is recommended unless directed otherwise by applicable ordinances.

The container for this product can present explosion or fire hazards, even when emptied! To avoid risk of injury, do not cut, puncture, or weld on or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.

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14.0 TRANSPORTATION INFORMATION

U.S. DEPT OF TRANSPORTATION

Shipping Name Hazard Class Identification Gasoline UN1203 Number II Packing Group

INTERNATIONAL INFORMATION:

Sea (IMO/IMDG)

Shipping Name Class Gasoline 3.1 II Packing Group UN Number ŪN1203

Air (ICAO/IATA) Shipping Name Class Gasoline , UN1203

Packing Group

European Road/Rail (ADR/RID)

Shipping Name Not determined.

Canadian Transportation of Dangerous Goods
Shipping Name : Gasoline
Hazard Class : 3
UN Number : UN1203 Packing Group : II

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## 15.0 REGULATORY INFORMATION

CERCLA SECTIONS 102A/103 HAZARDOUS SUBSTANCES (40 CFR PART 302.4): This product is exempt from the CERCLA reporting requirements under 40 CFR Part 302.4. However, if spilled into waters of the United States, it may be reportable under 33 CFR Part 153 if it produces a sheen.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR PART 355): This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIZATION (40 CFR PART 370): This product is defined as hazardous by OSHA under 29 CFR Part 1910.1200(d). Hazardous categories for this product are: Acute = yes; Chronic = yes; Fire = yes; Pressure = no; Reactive = no.

SARA TITLE III SECTION 313 (40 CFR PART 372): This product contains the following substance(s), which is on the Toxic Chemicals List in 48 CFR Part 372:

! Component/CAS Number	! Weight Percent
Component/CAS Number	Weight Percent
! Benzene 71-43-2	! 4
! Trimethylbenzene 95-63-6	! 7
: Cyclohexane 110-82-7	! 5
! Ethylbenzene 100-41-4	! 2
! Xylene 1330-20-7	! 10
! Methyl tertiary butyl ether (MTBE) 1634-84-4	: 18
! Hexane 110-54-3	! 5
! Naphthalene 91-20-3	: 1.1
: Toluene 108-88-3	! 22

#### U.S. INVENTORY (TSCA): Listed on inventory.

This product may contain methyl tertiary-butyl ether (CAS #1634-04-4) or tert-amyl methyl ether (CAS #994-05-0), both of which are currently undergoing review and testing under TSCA Section 4. Notification to the U.S. EPA Office of Toxic Substances is required prior to export of this material from the United States.

OSHA HAZARD COMMUNICATION STANDARD: Flammable liquid. Irritant. Contains components listed by ACGIH. Contains components listed by OSHA. Contains a carcinogenic component.

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GASOLINES (LEAD-FREE) MSDS No. 09748000

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WHMIS CONTROLLED PRODUCT CLASSIFICATION: B2, D2A, D2B.

EC INVENTORY (EINECS/ELINCS): One or more components not listed on inventory.

JAPAN INVENTORY (MITI): One or more components not listed on inven-

AUSTRALIA INVENTORY (AICS): One or more components not listed on the inventory.

KOREA INVENTORY (ECL): One of more components not listed on inventory.

CANADA INVENTORY (DSL): One or more of the components of this product is not listed on the DSL.

PHILIPPINE INVENTORY (PICCS): One or more components not listed on the inventory.

#### 16.0 OTHER INFORMATION

When gasoline is mixed with ethyl alcohol, the DOT proper shipping name for domestic shipments is:

Gasohol, 3, NA1203, II.

This material contains an ingredient/ingredients present on the following State Right-To-Know lists:

-Florida- -Massachusetts- -New Jersey- -Pennsylvania- -California--Minnesota-

This product contains an ingredient/ingredients known to the state of California to cause cancer and/or reproductive toxicity.

Prepared by:

ment July 16, 1999 Issued: Environment, Health and Safety Department

Supersedes: December 28, 1998

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from

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GASOLINES (LEAD-FREE)
MSDS No. 09748000

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abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.  $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2}$ 

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## MATERIAL SAFETY DATA SHEET

A. J. FUNK & CO.

1471 Timber Drive, Bigin, IL 60123

Tel:(847) 741-6760 Fax:(847) 741-6767

HMIS CODE	
Health	1
Fire	1
Reactivity	0
Pers. Prot.	None

Emergency Phone Number (Spill or Release): (847) 741-6760

National Poison Control Network (Medical Emergency): (412) 681-6669

SECTION 1: IDENTITY

COMMON NAME: SPARKLE GLASS CLEANER PRODUCT CODE: 205002 7 1996

(Used on label - Trade Name and Synonyms)

CHEMICAL FAMILY: Glass Cleaner

FORMULA: Mixture

PROPER SHIPPING NAME: Consumer Commodity D.O.T. HAZARD BLEASURE on GARAGOUS

1 12 6

CHEMICAL NAME: Mixture

CAS NO. 111-76-2

**SECTION 2: HAZARDOUS INGREDIENTS** 

HAZARDOUS COMPONENTS: (Chemical and Common Number)

2-Butoxyethanol CAS# 111-76-2

HAZARD:

Skin, eyes

TLY (UNITS):

120mg/M³/8HR(OSHA)

SECTION 3: PHYSICAL AND CHEMICAL CHARACTERISTICS

(FIRE AND EXPLOSION DATA)

BOILING POINT: 95°C

SPECIFIC GRAVITY: 0.994

VAPOR PRESSURE: Not Available

(H20=1)

PERCENT VOLATILE: 4.9%

VAPOR DENSITY: Not EVAPORATION RATE: Not

BY VOLUMB (%)

(AIR=1) Available

Available

SOLUBILITY IN WATER: Complete

REACTIVITY IN WATER/AIR: None

APPEARANCE AND ODOR: Clear liquid with proprietary flowery/fruity fragrance.

FLASH POINT: None

FLAMMABLE LIMITS LOWER = None

IN AIR % BY VOLUMB UPPER = None

EXTINGUISHER MEDIA: None

AUTO IGNITION TEMPERATURE: None EXTINGUISHER MEDIA: None SPECIAL FIRE FIGHTING PROCEDURES: None UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

SECTION 4: PHYSICAL HAZARDS

STABILITY: UNSTABLE

STABLE XX

**CONDITIONS TO AVOID:** 

INCOMPATIBILITY/ (Materials to Avoid): Not recommended for finished wood surfaces.

HAZARDOUS DECOMPOSITION PRODUCTS: None Known

HAZARDOUS POLYMERIZATION

MAY OCCUR WILL NOT OCCUR XX CONDITIONS TO AVOID:

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MOR 000846

## COMMON NAME: SPARKLE GLASS CLEANER

## SECTION 5: HEALTH HAZARDS

OSHA PERMISSIBLE EXPOSURE LIMIT: None ACGIH THRESHOLD LIMIT VALUE: None

OTHER EXPOSURE LIMIT USED: None

SIGNS AND SYMPTOMS OF EXPOSURE:

1. ACUTE OVEREXPOSURE: May irritate eyes.

2. CHRONIC OVEREXPOSURE: None Known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

PRIMARY ROUTE(S) OF EXPOSURE: None

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EMERGENCY AND FIRST AID PROCEDURE:

IF IN EYES: Flush with water for 15 minutes.

FEB 2.7 1996

IF INGESTED: Drink several glasses of water - Call a doctor,

HYGENIC PRACTICES: Keep out of eyes. Keep out of the reach of children REY CCRP

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: None

## SECTION 6: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None

WORK PRACTICES: None

VENTILATION: Use in area with adequate ventilation. PROTECTIVE GLOVES: None

EYE PROTECTION: Safety glasses when handling large quantities.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

## SECTION 7: SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

CONSUMER: None

MANUFACTURER: Adequate ventilation or respiratory mask and eye protection.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wipe up with absorbent material or wash away with water.

IN CASE OF LARGE SPILL: Dispose of according to local ordinances.

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WASTE DISPOSAL METHODS: End use product container should be discarded as normal,

non-hazardous, solid waste.

## SECTION 8: ADDITIONAL INFORMATION

PRODUCT INFORMATION: (847) 741-6760 (Non-Emergency)

(8:00 a.m. - 4 p.m. Central Standard Time - Monday through Friday)

DATE PREPARED: FEBRUARY 15, 1996 PREVIOUS MSDS DATED: 3/15/91

---- PIOA

MATERIAL SAPETY DATA SHEET

SECTION I

MANUFACTURER: GLYPTAL, INC.

305 EASTERN AVE

CHELSBA, KA 02150 TELEPHONE: 617-254-6918

PRODUCT CLASS: AIR DRY ENAMEL

CODE IDENTIFICATION: 1201

TRADE NAME: GLYPTAL

**HMIS 2 3 0** 

Atta: Fred Pfeiffer

王TMC-1090336

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT PERCENT ACCIH TLV

BY WEIGHT mg/cu.m. PPM PPN mg/cu.m.

XYLENE 34.5

CAS NUMBER 1330-20-7 HMIS HEALTH-1 PLAMMABILITY-3 REACTIVITY-0

XYLOL 3 C O

VMSP NAPTHA 300 CAS NUMBER \$535-30-6

HMIS KEALTH-2 FLAMMABILITY-3 REACTIVITY-0 ALIPHATIC HYDROCARBON

STODDARD SOLVENT 0.2 500

CAS NUMBER 64741-41-9

HXIS HEALTH-2 FLAXHABILITY-2 REACTIVITY-0 HYDROCARBON MIXTURE

IROK OXIDE CAE NUXBER 1309-382

HMIS HEALTH-O FLAMMABILITY-1 REACTIVITY-1

FERRIC OXIDE

HYDRATED KAGNESIUM SILICATE 16.9

CAS NUMBER 14807-96-6

HMIS HEALTH-2 FLAMMABILITY-D REACTIVITY-0 TALC

Remaining 34.7 % is a non-bazardous alkyd resin. VX4P (CARE 8030-10-6), AGENCY OSHA, TYPE STEL, EXPOSURE LIMIT 400 PPM

M/A means NOT AVAILABLE N/EST MEANS NOT ESTABLISHED

NOT BST. means NOT ESTABLISHED

NOT EST. means NOT ESTABLISHED

N/A MEAKS NOT AVAILABLE NOT EST MEANS NOT ESTABLISHED

SECTION 111 - PHYSICAL DATA

BOILING RANGE: 250.0 TO 345.0 F VAPOR DENSITY: KEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN STREET PERCENT VOLATILE BY VOLUME: 56.5

VOC (less water): 1.98 LBS/GAL WEIGHT PER GALLOW: 9.91 POUNDS

V.O.C. IS DETERMINED PER EPA REPERENCE METHOD 24 USING ASTM PROCEDURES D2369

D1475 AND 0.1960. VAPOR PRESSURE: 5.79 MM/HG MELTING POINT: NOT APPLICABLE

SOLUBILITY IN WATER: NEGLIGIBLE

APPEARANCE AND ODOR: RED LIQUID WITH PAINT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

OSEA CATEGORY: PLAMMABLE LIQUID

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PLASH POINT: 72 P PERSKY MARTIN LEL: 1.0 UEL: N/A

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical or foam

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Pressure may build up in closed containers that are exposed to heat. Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and "flash back".

SPECIAL SIRE FIGHTING PROCEDURES:

Water may be ineffective, however, water may be used to cool closed containers that are expused to heat. Firefighting personnel should wear self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: SEE SECTION II PRIMARY ROUTE(S) OF ENTRY:

ichalation and skin contact

ETFECTS OF OVEREXPOSURE:

Readache, nausea, dizziness, confusion, irritability.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Respiratory difficulties or preexisting skin sensitization.

CARCINOGENICITY:

None of the components of this product are reported cardinogens in A/C with OSHA, MTP, IAKC and NIOSH.

ENERGENCY FIRST AID PROCEDURES:

INHALATION: kemove to fresh air. Administer artificial respiration or oxygen if breathing is difficult.

SKIN: Wash affected area with soap and water. Remove and launder contaminated clothing. Consult a physician if irritation persists.

EYES: Flush immediately with large amounts of water for at least 15 minutes. Take to a physician for medical treatment.

INSESTION: Call a physician immediately.

ACUTE: Skin and eye contact: Primary irritation. CHROMIC: Xylene contained in this material has been found to cause the follo wing effects in laboratory animals:amenia, liver abnormalities, liver and eye damage. Pre-Exiting liver and/or kidney disorders may be aggrevated by exposure to xylene. Reports have associated repeated and prolonged occupational overexpo sure to xylene with permanent brain and nervous system damage.

RECTION VI - REACTIVITY DATA

STABILITY: NORMAL STABLE CONDITIONS TO AVOID: None known INCOMPATIBILITY (Materials to avoid) Strong acids and bases HAZARDOUS DECOMPOSITION PRODUCTS: BY FIRE: Normal products of incomplete combustion. HAZARDOUS POLYMERIZATION: DOBS NOT OCCUR CONDITIONS TO AVOID: None known

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Provide adequate ventilation. Remove all possible ignition sources. Absorb and dispose using non-sparking tools. Eliminate all sources of ignition. Evacuate unprotected personnel. Water RECEIVED

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THE MUNET CORP.

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Pager

MSDS: dLY1201

spray may be used. To contain run-off, cover with an absorbent material and place in containers for proper disposal. Flush area with water to remove residue.

WASTE DISPOSAL METHOD:

Dispose in accordance with local applicable regulations. Disposal of using an approved incineration process or in accordance with local, state, and federal regulations regarding health and pollution.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

In outdoor or open areas use Bureau of Mines approved mechanical filter respirator to remove solid airborne particulates of overspray. Indoors, where ventilation is inadequate, use Bureau of Mines approved chemical-mechanical respirators designed to remove both particulate and vapor.

: KOITALITHEV

PROTECTIVE GLOVES:

Recommended if skin contact is likely.

EYE PROTECTION:

Chemical aplant goggles recommended if potential for splash or eye contact is likely.

THER PROTECTIVE EQUIPMENT:

Recommended as needed to avoid contact.

#### SECTION 1X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING:

Store in a cool dry place away from heat, sparks and open flame. Keep containers closed and upright to prevent leakage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquid storeroom or cabinet. Metal containers should be grounded when transferring material from one container to another. Do not reuse product container for any purpose.

OTHER PRECAUTIONS:

PREPARED BY: TECHNICAL STAFF REFERENCE DATE: JUNE 1997

THE INFORKATION AND RECORMENDATIONS CONTAINED HEREIX ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARKANTY OF ANY KIND, EXPRESSED OR INPLIED, IS MADE WITH RESPECT TO THE INFORMATION ABOVE.

TO MHOM IT MAY CONCERN: EFFECTIVE JAN 1, 1989, ME ARE REQUIRED BY SARA TIT LE III SECTION 313 OF THE RIGHT TO KNOW LEGISLATION, TO INFORM YOU OF THE PERCENTAGE OF ANY INGREDIENT IN A PRODUCT WHICH IS IN THE 313 LIST OR AS AN LISTING AS A COMPONENT OF A MATERIAL WHICH IS IN A CATEGORY OF CHEMICAL LIST.

PRODUCT: 1201 GLYPTAL

34.5% XYLENE (CAS NUMBER 1330-20-7)

IF YOU WILL MULTIPLY YOUR TOTAL PURCHASES FROM US AS WELL AS FROM OTHER SU PPILERS BY THE PERCENTAGE OF EACH INGREDIENT FOUND IN EACH PRODUCT AND IF THE TOTAL QUANTITY EXCEEDS THE REPORTABLE QUANTITY FOR THAT INGREDIENT YOU ARE REQUIRED TO FILE FORM R REPORTS.

RECEIVED

Date: 08/16/1999

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THE MUNEI LUKE.

Rec by Morey Corp. -2-8-99 _

56479 MOREY CORP.

2659 WISCONSIN AVE. DOWNERS GROVE , IL 60515

ELECTRICAL INSULATION SUPPLIERS 1255 COLLIER RD. ATLANTA, GA 30318

PHONE # (404)355-1651 FAX # (404)609-6084

MATERIAL SAFETY DATA SHEET INFORMATION:

PLEASE FIND ENCLOSED MATERIAL SAFETY DATA SHEETS (MSDS) COVERING ITEMS PURCHASED FROM ELECTRICAL INSULATION SUPPLIERS (EIS). OSHA REGULATIONS REQUIRE MSDS INFORMATION BE MADE AVAILABLE TO ALL PERSONNEL WHO MAY BE EXPOSED TO HAZARDOUS MATERIALS IN THE WORK PLACE.

UNDER THE "EMERGENCY PLANNING COMMUNITY RIGHT-TO-KNOW ACT OF 1986" INVENTORY AND LOCATION INFORMATION, CONCERNING HAZARDOUS MATERIALS MFG JOB SITE, MAY NEED TO BE REPORTED TO THE LOCAL FIRE DEPARTMENT, THE LOCAL EMERGENCY PLANNING COMMITTEE AND THE STANDARD RESPONSE COMMISSION. YOU MAY WANT TO REFERENCE 40 CFR PART 372 FOR ADDITIONAL INFORMATION. MANUFACTURERS MUST REPORT ANNUAL RELEASES OF LISTED TOXIC CHEMICALS INTO THE ENVIRONMENT, ACCORDING TO SARA TITLE III.

ACCORDING TO 29 CFR PART 1910.1200 PARAGRAPH (g)(6) OF THE HAZARD COMMUNICATION STANDARD, A MSDS IS TO BE PROVIDED THE FIRST TIME THE CUSTOMER BUYS AN ITEM REQUIRING A MSDS. IF AT ANY TIME THE MSDS IS UPDATED OR CHANGED, THE UPDATED MSDS MUST BE SUPPLIED WITH THE FIRST SHIPMENT AFTER THE MSDS UPDATE HAS OCCURRED.

IF YOU NEED FURTHER INFORMATION CONCERNING YOUR SITUATION, YOU MAY CONTACT THE EPA IN WASHINGTON, D.C. THEIR TOLL FREE NO. IS (800)535-0202; THE RCRA/SUPERFUND HOT LINE IS (800)424-9346 OR (703)920-9810; THE TSCA HOT LINE IS (202)554-1404.

BY PROVIDING THIS DOCUMENTATION, EIS IS COMPLYING WITH FEDERAL LAWS GOVERNING MSDS INFORMATION, AS IS KNOWN TO US. THIS IS A SERVICE AIMED AT HELPING YOUR BUSINESS TO ALSO COMPLY WITH GOVERNMENT REGULATIONS.

DAVE SHARPE

"SEE THE REVERSE SIDE FOR DOCUMENT NAME AND P.O. NUMBER"

64/1202-6lyptal

56479/MOREY CORP.

SHIP

BLR240

MSDS DOCUMENT GLY1202

DATE CUSTOMER PURCHASE ORDER NUMBER 01/11/99 108884

#### MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER: GLYPTAL, INC.

305 EASTERN AVE

CHELSEA, MA 02150

TELEPHONE: 617-884-6918

PRODUCT CLASS: ALKYD RESIN SOLUTION

CODE IDENTIFICATION: 1202

TRADE NAME: GLYPTAL

HMIS 230

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT

PERCENT

ACGIH TLV OSHA PEL

mg/cu.m. PPM mg/cum.

XYLENE

BY WEIGHT

P**PM** 100

100

CAS NUMBER 1330-20-7

HMIS HEALTH=1 FLAMMABILITY=3 REACTIVITY=0 XYLOL

STODDARD SOLVENT

NT < 0.1 500

CAS NUMBER 64741-41-9

HMIS HEALTH=2 FLAMMABILITY=2 REACTIVITY=0

HYDROCARBON MIXTURE

N/A MEANS NOT AVAILABLE N/E

N/EST MEANS NOT ESTABLISHED

NOT EST. means NOT ESTABLISHED NOT EST. means NOT ESTABLISHED

N/A MEANS NOT AVAILABLE NOT EST MEANS NOT ESTABLISHED

SECTION III - PHYSICAL DATA

BOILING RANGE: 283.0 TO 285.0 F

VAPOR DENSITY: HEAVIER THAN

EVAPORATION RATE: SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME: 57.5

VOC (LESS WATER): 4.15 LBS/GAL

WEIGHT PER GALLON: 8.31 POUNDS

VOC is determined per EPA Reference Method 24 using ASTM procedures D2369, D1475, D3960

VAPOR PRESSURE: 9.5 MELTING POINT:

SOLUBILITY IN WATER: NEGLIGIBLE APPEARANCE AND ODOR: CLEAR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

OSHA CATEGORY: FLAMMABLE LIQUID

FLASH POINT: 79F CC-PM

LEL: 1 UEL: N/A

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical or foam

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Pressure may build up in closed containers that are exposed to heat Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and "flash back".

SPECIAL FIRE FIGHTING PROCEDURES:

Water may be ineffective, however, water may be used to cool closed containers that are exposed to heat. Firefighting personnel should wear self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: SEE SECTION II

PRIMARY ROUTE(S) OF ENTRY:

Inhalation and skin contact

EFFECTS OF OVEREXPOSURE:

Headache, nausea, dizziness, confusion, irritability.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Respiratory difficulties or preexisting skin sensitization.

CARCINOGENICITY:

None of the components of this product are reported carcinogens.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Administer artificial respiration

or oxygen if breathing is difficult.

SKIN: Wash affected area with soap and water. Remove and launder contaminated clothing. Consult a physician if irritation

persists.

EYES: Flush immeditately with large amounts of water for at least 15

minutes. Take to a physician for medical treatment.

INGESTION: Call a physicain immediately.

ACUTE: Skin and eye contact: Primary irritation

CHRONIC: Xylene contained in this material has been found to cause the

following effects in laboratory animals: amenia, liver abnormalities, liver

and eye damage.

SECTION VI - REACTIVITY DATA

STABILITY: NORMALLY STABLE

CONDITIONS TO AVOID:

None known

INCOMPATABILITY (Materials to avoid)

Strong acids and bases

HAZARDOUS DECOMPOSITION PRODUCTS:

BY FIRE: Normal products of incomplete combustion.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID:

None known

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Provide adequate ventilation. Remove all possible ignition sources.

Absorb and dispose using non-sparking tools.

Eliminate all sources of ignition. Evacuate unprotected personnel. Water spray may be used. To contain run-off, cover with an absorbent material and place in containers for proper disposal. Flush area with wate remove residue.

WASTE DISPOSAL MEHTOD:

Dispose in accordance with local applicable regulations.

Dispose of using an approved incineration process or in accordance with local, state, and federal regulations regarding health and pollution.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

In outdoor or open areas use Bureau of Mines approved mechanical tilter respirator to remove soild airborne particulated of overspray. Indoors, where bentilation is inadequate. Use Bureau of Mines approved chemical-mechanical respirators designed to remove both particulater and vapor.

VENTILATION:

PROTECTIVE GLOVES:

Recommended if skin contact is likely.

EYE PROTECTION:

Chemical splash goggles recommended if potential for splash or eye contact is likely.

OTHER PROTECTIVE EQUIPMENT:

Recommended as needed to avoid contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING:

Store in a cool dry place away from heat, sparks and open flame. Keep containers closed and upright to prevent leakage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquid storeroom or cabinet. Metal containers should be grounded when transferring material from one container to another.

Do not reuse product container for any purpose.

OTHER PRECAUTIONS:

PREPARED BY: TECHNICAL STAFF

REFERENCE DATE: 2/09/98

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION

ABOVE.

TO WHOM IT MAY CONCERN: EFFECTIVE JAN 1, 1989, WE ARE REQUIRED BY SARA TITLE III SECTION 313 OF THE RIGHT TO KNOW LEGISLATION, TO INFORM YOU OF THE PERCENTAGE OF ANY INGREDIENT IN A PRODUCT WHICH IS IN THE 313 LIST OR AS ANY LISTING AS A COMPONENT OF A MATERIAL WHICH IS IN A CATEGORY OF CHEMICAL LIST.

PRODUCT: 1202

GLYPTAL

49.9% XYLENE (CAS NUMBER 1330-20-7)

IF YOU WILL MULTIPLY YOUR TOTAL PURCHASES FROM US AS WELL AS FROM OTHER SUPPLIERS BY THE PERCENTAGE OF EACH INGREDIENT FOUND IN EACH PRODUCT AND IF THE TOTAL QUANTITY EXCEEDS THE REPORTABLE QUANTITY FOR THAT INGREDIENT YOU ARE REQUIRED TO FILE FORM R REPORTS.

DOW CORNING(R)	IGH A	Free and a	146355D Page
			146355C
SECTION 1. CHEM	ICAL PROD	UCT AND COMPANY ID	<del></del>
Dow Corning Cor South Saginaw F Midland, Michig	- ≀oad	! Product Disp	gency Telephone: !(517) 496-5900 duct Information: !(517) 496-6000 osal Information: !(517) 496-5813
		! Transporta	CHEMTREC: !(800) 424-9300
MSDS No: 10188 03/14/94	317	Print Date: 0	5/07/97 Last Revised:
Generic Des Physi	cal Form: Color:	Viscous Liquid	
NFPA			oility 1 Reactivity 0
Note: NFPA = Na	tional Fi	re Protection Assoc	iation
SECTION 2. OSE	A HAZARDO		
CAS Number			Exposure Limits
007631869	9	Silica, amorphous	OSHA PEL: TWA 15 mg/m3 total dust, 5 mg/m3 respirable fraction. ACGIH TLV: TW A 10 mg/m total dust.
Comments: The a	bove compo	onents are hazardoù	s as defined in 29 CFR 1910.1200.
SECTION 3. EFF	ECTS OF O		
Acute Effects			
		ntact may cause ter cyness similar to v	porary discomfort with mild windburn.
i.			

	are the water applies	Page :
DOW CORNIN	G(R) HIGH VACUUM GREASE	
!Skin: !	A single prolonged exposure (24 to 48 hours) causes no know adverse effect.	vn
!Inhalation!	n: No irritation to eyes and respiratory passages. No injury likely from relatively short exposures of less than 8 hours	
! Oral: ! !	Small amounts transferred to the mouth by fingers during us etc., should not injure. Swallowing large amounts may caus digestive discomfort.	
! !Repeated	Exposure Effects	!
! !Skin:	None Known.	! !
!Inhalation	n: None Known.	! !
!Oral:	None Known.	! !
! !Special Ha	azards	!
! !This mater! !listed bel	rial contains the following components with the special hazar low.	ds !
!Carcinoger	ns 	;
! !None Knowr	n	!
: !Teratogens	S Company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the comp	!
! !None Know!	n.	!
! ! Mutagens		!
! ! None Knowr	n.	! !
!Reproducti	ive Toxins	1
! !None Known	n	! ! !
: !Sensitizer	MOR 000857	
1		!

Page 3

## DOW CORNING CORPORATION MATERIAL SAFETY DATA SHEET

DOW CORNING(R) HIGH VACUUM GREASE !None Known !Comments: Please read the additional information below. !The above listed potential effects of overexposure are based on actual data, ! !results of studies performed upon similar compositions component data and/or ! !expert review of the product. !SECTION 4. FIRST AID MEASURES Immediately flush with water. !Skin: No first aid should be needed. !Inhalation: No first aid should be needed. !Oral: No first aid should be needed. !Comments: Treat symptomatically. SECTION 5. FIRE FIGHTING MEASURES 212.00 DEGREE F / 100.00 DEGREE C !Flash Point (Method): Not Determined !Autoignition Temperature: !Plammability Limits in Air: Not Determined !Extingushing Media: Carbon dioxide (CO2). Water. Water fcg (or spray). Dry chemical. Foam. !Unsuitable Extinguishing Media: None !Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. !Unusual Fire Hazards: None

DOW CORNING(R) HIGH VACU	UM GREASE	Page (
!Hazardous Decomposition ! !		s:and traces of incompletely pounds. Silicon dioxide.
+		
SECTION 6. ACCIDENTAL	RELEASE MEASURES	
mate appl regu l spil keep l slip seve wash high l safe l safe sepil safe sepil sepil sepil sepil seve sepil sepil sepil sepil sepil sepil sepil sepil sepil sepil sepil sepil sepil sepil sepil sepil sepil	rials may be government; icable local, state, and lations. Mop up, or will repeat and contain for so ls, provide diking or or material from spreading pery surfaces by approparal moppings or swabbing with mild, caustic or pressure steam for largety precautions applicable used. Observe all permendations described in e, and federal reporting ls or releases of this mapplicable regulatory coion 15.	alvage or disposal. For large ! ther appropriate containment to! g. Clean any remaining riate techniques, such as: gs with appropriate solvents; detergents or solutions; or ge areas. For nonsilicones, ning materials. Observe any le to the cleaning material rsonal protection equipment n Sections 5 and 8. Local, g requirements may apply to material into the environment. compliance information in
!NOTE: See Section 8 for	Personal Protective Equ	ipment for spills :
+!SECTION 7. HANDLING ANI		+
! !Handling: No special pre! !Storage: No special pred!	cautions. Use reasonabl	!
•	NTROLS/PERSONAL PROTECTI	+ + EON !
	<b></b>	

DOW CORNING(R) HIGH VACUUM GREASE	rage
!Engineering Controls	
! !Local exhaust: None should be needed !General Ventilation: Recommended !	
Personal Protective Equipment For Routine Ha	
!	safety glasses as a minimum.
!Skin: Washing at mealtime and o	end of shift is adequate.
!Suitable Gloves: No special protection nee	eded.
!Inhalation: No respiratory protection	n should be needed.
Suitable Respirator: None should be needed.	
Personal Protective Equipment For Spills	
! :Eye: Use proper protection - :	safety glasses as a minimum.
Skin: Washing at mealtime and e	end of shift is adequate.
!Inhalation/ !Suitable Respirator: No respiratory protecti !	on should be needed.
! !Precautionary Measures: Avoid eye contact. !	Use reasonable care.
! !Comments: None !	! ! !
! !Note: These precautions are for room tempera! ! temperature, or aerosol/spray applicati ! precautions. !	ons, may require added!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
+	;
t	

DOW CORNING(R) HIGH VACUUM	GREASE	Page 6
Physical form:	Viscous Liquid	
Color:	Translucent white	
Odor:	Odorless	
Specific Gravity ( 25C:	1.10	
Viscosity:	2000000.00 CST	
Freezing/Melting Point:		
	Not Determined.	
Vapor Pressure @ 25C:		
Vapor Density:	Not Determined.	
Solubility in Water:		
PH:		
Volatile content (Wt%):	Not Determined.	
	tact Dow Corning before writing specifications	
SECTION 10. STABILITY AN		!
Chemical Stability: St	able.	! !
•		3
Hazardous Polymerization:	Hazardous polymerization will not occur.	!
Conditions to Avoid: No	ne.	!
Materials to Avoid: Ox.	idizing material can cause a reaction.	<b>:</b>
Comments: None		!
SECTION 11. TOXICOLOGICAL	L INFORMATION	! +
OPTIONAL SECTION - Complete	te information not yet available.	!
SECTION 12. ECOLOGICAL II	NFORMATION	+ ! 
OPTIONAL SECTION - Complet	te information not yet available.	! +
		+

DOW CORNING(R) HIGH VACUUM GREASE	Page 1
SECTION 13. DISPOSAL CONSIDERATIONS	
!OPTIONAL SECTION - Complete information not yet available.	!
! !Call Dow Corning Environmental Mgmt. (517)496-6315, if more information !desired. +	!
teremony 14 many spans typopy many	
SECTION 14. TRANSPORT INFORMATION	: +
!DOT Information (49CFR 172.101)	
! !Proper Shipping Name: Not Available	! !
! !Hazard Technical Name: Not Available	!
!Hazard Class: Not Available	: !
!UN/NA Number: Not Available	!
!Packing Group: Not Available	!
!Call Dow Corning Transportation, (517)496-8577, if additional information !required.	1
+	<del>+</del>
!SECTION 15. REGULATORY INFORMATION	: +
! IContents of this MSDS comply with the OSHA Hazard Communication Standard !29CFR 1910.1200	! ! !
!TSCA Status: All chemical substances found in this product comply with the !Toxic Substances Control Act inventory reporting requirements.	the!!
! !EPA SARA Title III Chemical Listings:	1
Section 302 Extremely Hazardous Substances: None	! ! !
! Section 304 CERCLA Hazardous Substances: ! None	!

DOW CORNING(R)	HIGH VACUUM	GREASE		rage
! Section 312 I ! Acute: ! Chronic: ! Fire: ! Pressure: ! Reactive:	Hazard Class N N N N N N N N N N	:		
! ! Section 313 1	Toxic Chemic		ted quantities.	
Supplemental St	<del></del>	nce Information	n. -	
. CAS . Number			, , , , , , , , , , , , , , , , , , , ,	,
State of Ca Act of 1986	lifornia uno (Propositio	der the Safe Dr	ollowing chemical(s rinking Water and To g known to cause can	oxic Enforcement
State of Ca Act of 1986 other repro	is product of lifornia und lifornia und lifornia und lifo lifo lifo lifo lifo lifo lifo lifo	der the Safe Dr on 65) as being	ollowing chemical(s) rinking Water and To g known to cause bin	oxic Enforcement
None Kno ! ! ! Massachusetts				
007631869 	9	Silica, amorp	hous	! ! !

DOW CORNING(R) E	IIGE VACUUM (	Page	. 9
063148629	83	Polydimethylsiloxane	
070131678	7	Dimethyl siloxane, hydroxy-terminated	
007631869	9	SILICA, AMORPHOUS FUMED; #1655	
Pennsylvania			
070131678	7	Dimethyl siloxane, hydroxy-terminated	
063148629	83	Polydimethylsiloxane	
007631869 	9	Silica, amorphous	
SECTION 16. OT	HER INFORMAT	ION	-+ !
!			- † !
!			!
!Prepared by: D	ow Corning C	orporation	!
!			!
: Imbic informatio	n is offered	in good faith as typical values and not as a	:
		warranty, expressed or implied, is hereby made.	:
		hygiene and safe handling procedures are believed	
		However, each user should review these	!
		ific context of the intended use and determine	!
!whether they ar			3
+			-+
(R) indicat	es Registere	d or Trademark of the Dow Corning Corporation.	
*		This is the last page. * * * * *	

Rec. 6-15-01

Page 1

INHALATION: REMOVE FROM FURTHER EXPOSURE. IF RESPIRATORY IRRITATION, DIZZIN NAUSEA, OR UNCONSCIOUSNESS OCCURS, SEEK IMMEDIATE MEDICAL ASSISTANCE AND CAPHYSICIAN. IF BREATHING HAS STOPPED, USE MOUTH TO MOUTH RESUSCITATION.

WW UNTITULIN

INGESTION: NOT EXPECTED TO BE A PROBLEM WHEN INGESTED. IF UNCOMFORTABLE SEE MEDICAL ASSISTANCE.

_______

#### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES: WATER OR FOAM MAY CAUSE FROTHING. USE WAT TO KEEP FIRE EXPOSED CONTAINERS COOL. WATER SPRAY MAY BE USED TO FLUSH SPIL AWAY FROM EXPOSURE. PREVENT RUNOFF FROM FIRE CONTROL OR DILUTION FROM ENTER STREAMS, SEWERS, OR DRINKING WATER SUPPLY.

SPECIAL PROTECTIVE EQUIPMENT: FOR FIRES IN ENCLOSED AREAS, FIRE FIGHTERS MU USE SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

FLASH POINT C(F): GT 204 (399) (ASTM D-92).

.FLAMMABLE LIMITS - LEL: NA UEL: NA.

NPPA HAZARD ID: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

HAZARDOUS DECOMPOSITION PRODUCTS: PHOSPHORUS OXIDES. SULFUR OXIDES. CARBON MONOXIDE.

## 6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: REPORT SPILLS AS REQUIRED TO APPROPRIATE AUTHORITI U.S. COAST GUARD REGULATIONS REQUIRE IMMEDIATE REPORTING OF SPILLS THAT COU REACH ANY WATERWAY INCLUDING INTERMITTENT DRY CREEKS. REPORT SPILL TO COAST GUARD TOLL FREE NUMBER (800) 424-8802. IN CASE OF ACCIDENT OR ROAD SPILL NO CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: ADSORB ON FIRE RETARDANT TRE SAWDUST, DIATOMACEOUS EARTH, ETC. SHOVEL UP AND DISPOSE OF AT AN APPROPRIAT WASTE DISPOSAL FACILITY IN ACCORDANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS, AND PRODUCT CHARACTERISTICS AT TIME OF DISPOSAL.

ENVIRONMENTAL PRECAUTIONS: PREVENT SPILLS FROM ENTERING STORM SEWERS OR DRA AND CONTACT WITH SOIL.

PERSONAL PRECAUTIONS: SEE SECTION 8.

MOR 000865

#### Page 2

#### 7. HANDLING AND STORAGE

HANDLING: NO SPECIAL PRECAUTIONS ARE NECESSARY BEYOND NORMAL GOOD HYGIENE PRACTICES. SEE SECTION 8 FOR ADDITIONAL PERSONAL PROTECTION ADVICE WHEN HANDLING THIS PRODUCT.

STORAGE: DO NOT STORE IN OPEN OR UNLABELLED CONTAINERS. STORE AWAY FROM STR OXIDIZING AGENTS OR COMBUSTIBLE MATERIAL.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: USE IN WELL VENTILATED AREA.

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OUSE AND WITH ADEQUATE VENTILATION.

EYE PROTECTION: NORMAL INDUSTRIAL EYE PROTECTION PRACTICES SHOULD BE EMPLOY

SKIN PROTECTION: NO SPECIAL EQUIPMENT REQUIRED. HOWEVER, GOOD PERSONAL HYGI PRACTICES SHOULD ALWAYS BE FOLLOWED.

EXPOSURE LIMITS: THIS PRODUCT DOES NOT CONTAIN ANY COMPONENTS WHICH HAVE RECOGNIZED EXPOSURE LIMITS. HOWEVER, AN EXPOSURE LIMIT OF 5.00 MG/M3 IS SUGGESTED FOR OIL MIST.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

TYPICAL PHYSICAL PROPERTIES ARE GIVEN BELOW. CONSULT PRODUCT DATA SHEET FOR SPECIFIC DETAILS.

APPEARANCE: LIQUID

COLOR: BROWN ODOR: MILD

ODOR THRESHOLD-PPM: NE

PH: NA

BOILING POINT C(F): GT 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): GT 204 (399) (ASTM D-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-MMHG 20 C: LT 0.1

VAPOR DENSITY: GT 2.0

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.879

SOLUBILITY IN WATER: NEGLIGIBLE

PARTITION COEFFICIENT: NE

VISCOSITY AT 40 C, CST: GT 61.2

VISCOSITY AT 100 C, CST: 8.6

POUR POINT C(F): LT -6(21)

PREEZING POINT C(F): NE

MOR 000866

VOC: LT 4.00 (WT. %); 0.293 LBS/GAL

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE.

WW WINDLINGLIN

#### Page 3

#### 10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): STABLE.

CONDITIONS TO AVOID: EXTREME HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS: PHOSPHORUS OXIDES. SULFUR OXIDES. CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

#### 11. TOXICOLOGICAL DATA

ACTION MONTGOLOGY

ACUTE TOXICOLOGY:

ORAL TOXICITY (RATS): PRACTICALLY NON-TOXIC (LD50: GREATER THAN 2000 MG/KG)
---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

DERMAL TOXICITY (RABBITS): PRACTICALLY NON-TOXIC (LD50: GREATER THAN 2000 MG/KG). ---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

INHALATION TOXICITY (RATS): NOT ESTABLISHED

EYE IRRITATION (RABBITS): PRACTICALLY NON-IRRITATING. (DRAIZE SCORE: 0 OR GREATER BUT 6 OR LESS). --- BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SKIN IRRITATION (RABBITS): PRACTICALLY NON-IRRITATING. (PRIMARY IRRITATION INDEX: GREATER THAN 0.5 BUT LESS THAN 3). ---BASED ON TESTING OF SIMILAR PRODUCTS AND/OR THE COMPONENTS.

SUBCHRONIC TOXICOLOGY (SUMMARY):

SEVERBLY SOLVENT REFINED AND SEVERELY HYDROTREATED MINERAL BASE OILS HAVE B TESTED AT MOBIL ENVIRONMENTAL AND HEALTH SCIENCES LABORATORY BY DERMAL APPLICATION TO RATS 5 DAYS/WEEK FOR 90 DAYS AT DOSES SIGNIFICANTLY HIGHER T THOSE EXPECTED DURING NORMAL INDUSTRIAL EXPOSURE. EXTENSIVE EVALUATIONS INCLUDING MICROSCOPIC EXAMINATION OF INTERNAL ORGANS AND CLINICAL CHEMISTRY BODY FLUIDS, SHOWED NO ADVERSE EFFECTS.

CHRONIC TOXICOLOGY (SUMMARY):

THE BASE OILS IN THIS PRODUCT ARE SEVERELY SOLVENT REFINED AND/OR SEVERELY HYDROTREATED. CHRONIC MOUSE SKIN PAINTING STUDIES OF SEVERELY TREATED OILS SHOWED NO EVIDENCE OF CARCINOGENIC EFFECTS.

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ENVIRONMENTAL FATE AND EFFECTS: NOT ESTABLISHED.

MOR 000867

#### 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED, CONTROLLED BURNER FOR FUEL VALUE OR DISPOSAL BY SUPERVISED INCINERATION. SUCH BURNING BE LIMITED PURSUANT TO THE RESOURCE CONSERVATION AND RECOVERY ACT. IN ADDIT

THE PRODUCT IS SUITABLE FOR PROCESSING BY AN APPROVED RECYCLING FACILITY OR BE DISPOSED OF AT AN APPROPRIATE GOVERNMENT WASTE DISPOSAL FACILITY. USE OF THESE METHODS IS SUBJECT TO USER COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS AND CONSIDERATION OF PRODUCT CHARACTERISTICS AT TIME OF DISPOSA

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#### Page 4

RCRA INFORMATION: THE UNUSED PRODUCT, IN OUR OPINION, IS NOT SPECIFICALLY LISTED BY THE EPA AS A HAZARDOUS WASTE (40 CFR, PART 261D), NOR IS IT FORMULATED TO CONTAIN MATERIALS WHICH ARE LISTED HAZARDOUS WASTES. IT DOES EXHIBIT THE HAZARDOUS CHARACTERISTICS OF IGNITABILITY, CORROSIVITY, OR REACTIVITY AND IS NOT FORMULATED WITH CONTAMINANTS AS DETERMINED BY THE TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP). HOWEVER, USED PRODUCT MA REGULATED.

#### 14. TRANSPORT INFORMATION

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USA DOT: NOT REGULATED BY USA DOT.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

GOVERNMENTAL INVENTORY STATUS: ALL COMPONENTS COMPLY WITH TSCA AND DSL.

EU LABELING: EU LABELING NOT REQUIRED.

U.S. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III: THIS PRODUCT CONTAINS NO "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: NONE.

THIS PRODUCT CONTAINS NO CHEMICALS REPORTABLE UNDER SARA (313) TOXIC RELEAS PROGRAM.

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME CAS NUMBER LIST CITATIONS

### NO REPORTABLE INGREDIENTS ###

### --- REGULATORY LISTS SEARCHED ---

| 1=ACGIH ALL | 6=IARC 1    | 11=TSCA 4   | 16=CA P65 CARC  | 21=LA RTK |
|-------------|-------------|-------------|-----------------|-----------|
| 2=ACGIH Al  | 7=IARC 2A   | 12=TSCA 5A2 | 17=CA P65 REPRO | 22=MI 293 |
| 3=ACGIH A2  | 8=IARC 2B   | 13=TSCA SE  | 18=CA RTK       | 23=MN RTK |
| 4=NTP CARC  | 9=OSHA CARC | 14=TSCA 6   | 19-FL RTK       | 24=NJ RTK |
| 5=NTP SUS   | 10=OSHA Z   | 15=TSCA 12B | 20=IL RTK       | 25=PA RTK |
|             |             |             |                 | 26=RI RTK |

CODE KEY: CARC=CARCINOGEN; SUS=SUSPECTED CARCINOGEN; REPRO=REPRODUCTIVE

### 16. OTHER INFORMATION

USE: WAY OIL MOR 000868

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

PLEASE CALL THE CUSTOMER RESPONSE CENTER ON 800-662-4525 FOR FORMULATION DISCLOSURE.

#### Page 5

FOR INTERNAL USE ONLY: MHC: 0# 0# NE 0# 1#, MPPEC: A, TRN: 600494-00, GLIS: 400389, CMCS97: 970716, REQ: US - MARKETING, SAFE USE: L EHS APPROVAL DATE: 29JUN1998

LEGALLY REQUIRED INFORMATION IS GIVEN IN ACCORDANCE WITH APPLICABLE INFORMA GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BE OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE U AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDIN WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPE TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING ANY LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDU SHOULD BE PROVIDEDTO HANDLERS AND USERS. USE OR RE-TRANSMISSION OF THE INFORMATION CONTAINED HEREIN IN ANY OTHER FORMAT THAN THE FORMAT AS PRESENT IS STRICTLY PROHIBITED. MOBIL NEITHER REPRESENTS NOR WARRANTS THAT THE FORM CONTENT OR PRODUCT FORMULAS CONTAINED IN THIS DOCUMENT COMPLY WITH THE LAWS ANY OTHER COUNTRY EXCEPT THE UNITED STATES OF AMERICA.

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MOR 000870

#### U411707100 1.0101

# 1LJA6,4ZF13 MOBIL

## MSDS for Grainger Stock Number 4ZF13

600494-00

600494-00 MOBIL VACTRA OIL NO. 2 MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL VACTRA OIL NO. 2

SUPPLIER: MOBIL OIL CORPORATION

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.

FAIRFAX, VA 22037

24 - HOUR EMERGENCY (CALL COLLECT): 609-737-4411

PRODUCT AND MSDS INFORMATION:

800-662-4525 609-224-4644

CHEMTREC:

800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

THIS PRODUCT IS NOT FORMULATED TO CONTAIN INGREDIENTS WHICH HAVE EXPOSURE LIMITS ESTABLISHED BY U.S. AGENCIES. IT IS NOT HAZARDOUS TO HEALTH AS DEFIN BY THE EUROPEAN UNION DANGEROUS SUBSTANCES/PREPARATIONS DIRECTIVES. SEE SEC 15 FOR A REGULATORY ANALYSIS OF THE INGREDIENTS.

SEE SECTION 15 FOR EUROPEAN LABEL INFORMATION.
SEE SECTION 8 FOR EXPOSURE LIMITS (IF APPLICABLE).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: PRODUCT ASSESSED IN ACCORDANCE WITH 29 CFR 1910.1200 AND DETERMINED NOT TO BE HAZARDOUS.

EFFECTS OF OVEREXPOSURE: NO SIGNIFICANT EFFECTS EXPECTED.

EMERGENCY RESPONSE DATA: BROWN LIQUID. DOT ERG NO. - NA

4. FIRST AID MEASURES

EYE CONTACT: FLUSH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, CALL A PHYSICIAN.

SKIN CONTACT: WASH CONTACT AREAS WITH SOAP AND WATER.

MOR 000871

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Page 1



MAR 04 1998

THE MUKEY COMP.

#### MATERIAL SAFETY DATA SHEET MSDS

Heraeus Inc. Cermalloy Division 24 Union Hill Industrial Park West Conshohocken, PA 19428

Office Telephone: (215)825-6050 Emergency Telephone: (800)255-3924

Date Prepared: 1/92 Date Revised: 4/26/95

Section 1: IDENTIFICATION

Product Name: PD860002SP, PD860002SA and PD860002S surface

mount non-conductive adhesive. Also Pd 911 .

CAS Registry Number: not applicable since product is a

mixture.

## Section 2: COMPONENT HAZARD DATA (3)

Hazardous Components CAS No. Exposure Limits 25068-38-6 not established epoxy resin 7631-86-9 10mg/M3 ACGIH (1) silica, amorphous

- TLV is very unlikely to be reached since material is in the paste form; hence no airborne particles. Provide adequate ventilation in the firing room to remove any evolved fumes.
- Supplementary data on lead attached if applicable.
- (3) Per 29 CFR 1910 the mixture has not been tested as a whole. All hazardous components which comprise >=1% of the mixture (0.1% if carcinogenic) are listed. Percentages of individual components are not listed as this information is considered a Trade Secret; it is not required that it be disclosed.

#### Section 3: PHYSICAL DATA

Appearance and Odor: Physical State - thick paste

Color - red Odor -mild

Initial Boiling Point of Organic Mixture:

Specific Gravity: 1

Vapor Pressure (Estimated for mixture, 20°C): N/AP

Vapor Density (Air = 1): N/AP

Evaporation Rate (Estimated for mixture, n-butyl acetate = 1,  $20^{\circ}C): N/AP$ 

Solubility in water: insoluble

page (1)

Section 4: FIRE, REACTIVITY, AND EXPLOSION HAZARD DATA Flash Point (Most flammable solvents): (>200 OF) Autoignition Temperature (Most Flammable Solvents): N/AV Flammable Limits in Air (Most Flammable Solvent): N/AV Extinguishing Media: Water Fog, Alcohol Foam, Dry Chemical Special Fire Fighting Procedures: Cool exposed containers with water. When fighting use NIOSH approved selfcontained breathing apparatus with full face piece operated in positive pressure mode, as evolved fumes are toxic and cause respiratory irritation.

Unusual Fire and Explosion Hazards: Store below flash point

away from open flame or sparks.

The material is stable under normal use Stability: conditions. Avoid temperatures > 40oC and moisture.

Incompatibility: Will not react with water. Avoid mixing with strong oxidizing agents, acids, and caustics.

Hazardous Decomposition Products: Combustion produces carbon monoxide, carbon dioxide, and various hydrocarbons. Hazardous Polymerization: Will not occur in masses in

syringe or jar.

Section 5: Health Hazards of Components \* OSHA Permissible Exposure Limit: Not Established for Mixture

Components listed as carcinogenic by NTP, IARC, or OSHA: None

Primary Routes of Entry: Organic Components - Inhalation, Skin Absorption Inorganic Components - Ingestion

| ROUTE AC<br>EXPOSURE | UTE & CHRONIC<br>SYSTEMS | MEDICAL<br>CONDITIONS<br>AGGRAVATED | EMERGENCY<br>FIRST<br>AID                                                                                        |
|----------------------|--------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Inhalation           | Irritant                 | Unknown                             | Remove to fresh air. If breathing difficult give oxygen. If breathing has stopped, start artificial respiration. |
| Skin Contact         | Irritant                 | Unknown                             | Remove contaminated clothing and launder before reuse. Wash thoroughly with soap and water.                      |
| Eye Contact          | Moderate                 | Unknown                             | Flush with running water for 15 mins. lifting upper and lower lids.                                              |

page (2)

Ingestion Irritation of Unknown Drink large the GI system quantities of water

- \* If necessary, copies of toxicology studies provided to HICD by the manufacturers of the above hazardous components can be supplied. Synergistic or additive effects of the above chemicals are unknown, as are the effects of exposure to these chemicals in addition to others present in the workplace.
- \*\* In all cases keep individuals warm and quiet and get medical attention.

## Section 6: PERSONAL PROTECTION AND CONTROLS

Personal Protection: Avoid prolonged skin contact.
Respiratory: Not required if local exhaust is satisfactory.
Ten (10) air changes per hour are recommended.
If overexposure occurs, use NIOSH-OSHA approved air supply respirator suitable for organic vapors. Administrative or engineering controls should be implemented to reduce exposure.

Eye: Chemical splash goggles or OSHA approved glasses. Skin: Solvent resistant gloves

Engineering Controls: Recommended ventilation, provide sufficient mechanical (general or local exhaust) ventilation to maintain concentrations below TLV -10 air changes per hour.

Hygienic Practices: Prevent eye contact with glasses or goggles, minimize skin contact, use with adequate ventilation to minimize inhalation of vapor. Do not smoke or eat in work areas. Wash hands thoroughly prior to smoking or eating.

## Section 7: STORAGE, SPILL, AND DISPOSAL

Special storage conditions: Keep containers closed and sealed when not in use. Steps to be taken in case material is released or spilled:

Clean spill with disposable paper towels (wear rubber gloves) and wash area with soap and water.

Waste Disposal Method: Dispose in accordance with all local, state and federal regulations.

EPA Waste Class:

Section 8: TRANSPORTATION

DOT ID No.

Section 9: REFERENCES

This MSDS is compilation of information supplied in the MSDS's obtained from the manufacturers of the chemicals present in this product. Also, 29 CFR.1210 was consulted for TLV information.

\*\*\* This information is for guidance, and is furnished without warranty of any kind. It is a compilation of data believed to be reliable, but Heraeus Incorporated, Cermalloy Division assumes no obligation or liability for its completeness or accuracy. page (3)

Rec. 6/5/00 \$

## MATERIAL SAFETY DATA SHEET

Manufacturer

Name:

HI-GRADE ALLOY CORP.

Address:

**17425 S. LAFLIN AVE** 

EAST HAZEL CREST, IL 60429

Phone #:

708-798-8300

Emergency #:

800-535-5053 (INFO TRAC)

Date Prepared:

04-28-97

CHEMICAL IDENTITY

Product name:

HI-GRADE #3592

**HAZARDOUS INGREDIENTS** 

| Material or Component | <u>%</u> | TWA     | STEI;   | Toxicity Data   |
|-----------------------|----------|---------|---------|-----------------|
| ISOPROPANOL           | 90-95    | 400 PPM | 500 РРМ | CAS : 67-63-0   |
| ORGANIC ACID          | 0-5      | 100 PPM | 100 РРМ | CAS: 68603-87-2 |

The HI-GRADE ALLOY CORP. reserves the right to withhold the specific chemical identity of its components as a trade secret; however, all essential data provided does pertain to the specific chemicals utilized in the formulation of our product.

## PHYSICAL DATA

Melt/Freeze Point:

N/A

Specific Gravity:

.826 - .808

**Boiling Point:** Vapor Pressure: 175 F

Solubility in water: % Volatile by volume: SOLUBLE 90 %

Vapor Density:

33 MM HG @ 68 F 2.1

**Evaporation Rate:** 

1.7

Color: Odor: CLEAR **ALCOHOLIC**  pH (as is): pH (1% solution): 4.0 3.5

## FIRE & EXPLOSION DATA

Flash Point:

54 F TCC

Autolgnition Temperature: 750 F Extinguishing Media:

WATER

Flammable Limits (Air)

12

Upper Limit:

Lower Limit: Special fire fighting procedures:

USE WATER TO COOL FIRE EXPOSED CONTAINERS. WEAR PROTECTIVE CLOTHING.

Unusual fire & explosion hazards:

FLAMMABLE LIQUID VAPORS MAY TRAVEL GREAT DISTANCES

TO IGNITION SOURCE & FLASH BACK.

## MATERIAL SAFETY DATA SHEET

Page: 2-F

#### REACTIVITY DATA

STABLE.

HAZARDOUS POLYMERIZATION WON'T OCCUR.

Conditions to avoid:

DIRECT HEAT, OPEN FLAMES, STORAGE IN ALUMINUM.

Incompatability:

ANHYDRIDES, HALOGENS, PHOSPHORUS, TRICHLORIDES, MONOMERS,

ALDEHYDES.

Hazardous decomposition products:

CARBON DIOXIDE/CARBON MONOXIDE, UNIDENTIFIED ORGANICS DURING COMBUSTION.

## ACUTE & CHRONIC EFFECTS OF OVEREXPOSURE

inhalation:

VAPORS MAY CAUSE HEADACHES, DIZZINESS.

Skin contact:

PROLONGED CONTACT MAY CAUSE IRRITATION AND DERMATITIS.

Skin absorption:

PROLONGED CONTACT MAY CAUSE IRRITATION AND DERMATITIS.

Eye contact:

VAPORS MAY BE IRRITATING, LIQUID MAY DAMAGE EYE TISSUE.

Ingestion :

MAY CAUSE PERSISTENT NAUSEA, VOMITING, ABDOMINAL PAIN.

## EMERGENCY & FIRST AID PROCEDURES

Eyes:

IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

GET PROMPT MEDICAL ATTENTION.

Skin:

WASH AFFECTED AREAS WITH SOAP & WATER.

REMOVE CONTAMINATED CLOTHING.

IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

Inhalation:

REMOVE FROM EXPOSURE.

IF BREATHING IS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION

GET PROMPT MEDICAL ATTENTION.

Ingestion:

DO NOT INDUCE VOMITING.

GIVE LUKEWARM WATER.

GET EMERGENCY MEDICAL ATTENTION.

Decontamination procedures:

NO SPECIAL PROCEDURES KNOWN TO US.

## MPLOYEE PROTECTION INFORMATION

Ventilation requirements:

FACE VELOCITY > 2.1 CUBIC FEET/MINUTE IN CONFINED AREAS.

Recommended personal protection equipment

Respirators:

NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE.

Eyes :

SPLASH GOGGLES OR FACE SHIELD.

Gloves:

CHEMICALLY RESISTANT GLOVES.

Special clothing & equipment:

EYE WASH & SAFETY SHOWER SHOULD BE AVAILABLE AT ALL TIMES.

LONG SLEEVE CLOTHING SHOULD BE WORN.

#### PRECAUTIONARY STATEMENT

As conditions and methods of use are beyond our control, we DO NOT assume any responsibility and expressly disclaim any liability for any use of the material. Information contained here in is believed to be true but all suggestions are made without any warranty.

GROUND ALL HANDLING EQUIPMENT; AVOID ALL POTENTIAL IGNITION SOURCES

## DISPOSAL, SPILL OR LEAK PROCEDURES

Aquatic toxicity classification:

NOT ESTABLISHED

Procedure for release or spill:

ELIMINATE SOURCES OF IGNITION. STOP DISCHARGE SOURCE.

USE ABSORBENTS OR PUMP INTO STORAGE CONTAINER.

Regulatory Information:

ALL COMPONENTS IN THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. IF SPILLED, NO REPORTING UNDER CERCLA IS REQUIRED. SARA TITLE III, SECTIONS 311/312 CLASSIFIES THIS PRODUCT UNDER IMMEDIATE HEALTH, DELAYED HEALTH, FIRE CATAGORIES. CARCINOGENICITY CLASSIFICATION: NOT LISTED UNDER IARC, ACGIH, OR NTP.

THIS MSDS IS BEING PROVIDED TO YOUR COMPANY FOR THE PURPOSE OF PROVIDING CURRENT HEALTH AND SAFETY INFORMATION TO YOUR MANAGEMENT AND FOR YOUR EMPLOYEES WHO WORK WITH THIS MATERIAL.

PLEASE READ THE INFORMATION ON THESE SHEETS, AND THEN PROVIDE THIS INFORMATION TO THOSE PEOPLE AT YOUR COMPANY WHOSE RESPONSIBILITY IT IS TO COMPLY WITH FEDERAL AND STATE RIGHT TO KNOW REGULATIONS. ALSO MAKE THIS INFORMATION AVAILABLE TO ANY EMPLOYEE WHO REQUESTS IT.

## TRANSPORTATION INFORMATION

DOT shipping name: FLAMMABLE LIQUID N.O.S. (ground shipment)

ICAO shipping name: ALCOHOL N.O.S. (air shipment)

Hazard class: 3

UN/NA #: 1993 (ground shipment) UN/NA #: UN 1987 (air shipment)

Packaging group: Il (ground shipment) Ill (air shipment)

HMIS rating Health: 1 Flammability:

Flammability: 3 Reactivity: 0 Rec. 4/3/00 Fr

HUMISEAL DIVISION/CHASE CORPORATION

BUMISBAL TYPE: 1831LSE

### MATERIAL SAFETY DATA SHEET

MANUFACTURER'S WAME: EUNISEAL

GENERAL INFORMATION: (718) 932-0800 FAX: (718) 932-4345

EMERGENCY; CHEMTREC: (800) 424-9300, ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, PIRE,

EIPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

ADDRESS: 26-60 Brooklyn Queens Expressway West, Woodside, NY 11377

CHEMICAL NAME AND STHORYNS: Acrylic Conformal Coating

TRADE BAME AND SYNONYMS: HUMISEAL 1831LSE - Experimental 1831 acrylic conformal coating in proposed VOC exempt

solvent

DATE OF REVISION: July 1, 1998

PREPARED BY: Edward Mines

SARA: This product contains no toxic chemicals listed in section 3A subject to the

reporting requirements of section 313 of the Emergency Planning & Community

Right-To-Enow Act of 1986 and 40 CFR 172 (SARA). TSCA: All the chemical components are TSCA listed.

CAIR: Not/Appl.

STATES RIGHT-TO KNOW LAWS: 100% of all chemical ingredients are listed in section 3 of this MSDS. Information

CASE

indicated as proprietary will be released to a physician or appropriate authority in an emergency.

S.C.A.Q.M.: VOC 184 grams per liter with exemption, 620 gram per liter without exemption.

EMIS/MFPA: Health 1 Fire 3 Reactivity 0

EITREMELY HAZARDOUS SUBST. LIST (TPQ): Does not apply.

SHIPPING CLASS: UN 1263, Paint, Flammable Liquid

MATERIAL WT. 1 ACCID

Section 3A (Sara RQ)

Section 1B

Acrylic Polymer 29-35 N/B Prop.
t butyl acetate 45-55 N/B 540-88-5
hexyl acetates 15-25 N/B 88230-35-7

BOILING POINT: 2089

VAPOR PRESSURE: 34mm @ 25C

VAPOR DEMSITY: NE SPECIFIC GRAVITY: .92

PERCENT VOLATILE BY VOLUME (1): 60-80%

EVAPORATION RATE: 2.4

SOLUBILITY IN WATER: Hegligible - less than 0.1 percent.

APPRARANCE AND ODOR: Water clear, low viscosity liquid, fruity odor.

FLASH POINT (METHOD USED): (Tag Closed Cup): 62F

PLANMABLE LIMITS: LBL: NB UBL: NE

EXTINGUISHING MEDIA: Form, carbon dioxide and dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Fight as a flammable liquid fire; wear self contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapor is flammable and heavier than air and may travel to source

of ignition and flashback.

ROUTES OF ENTRY: SKIN: Yes. INTALATION: Yes. INGESTION: Yes.

RPPRCTS OF RIPOSURE:

Byes: Short term contact may result in slight eye irritation and conjunctivitis. Prolonged contact with liquid can result in corneal burns. High vapor concentrations > approx. 1000PPM are irritating to the eyes.

**EUNISPAL TYPE: 1831LSE** 

Skin: Prolonged and repeated liquid contact can cause defatting and drying of the skin, which may result in skin irritation and dermatitis. Dermal LD(50) (Rabbits):>2000mg/Kg.Skin absorption may add significantly to exposure. Inhalation: Causes central nervous system depression. Mild exposure causes

->

dizziness, weakness, headache, nausea, etc.. More severe exposures, greater than approx. 1000PPM, may cause respirator depression, convulsions and death. Cardiac arrhythmias, including fatal ventricular fibrillation, may occur. 1h1-rat LCLo: 4000PPM/4 brs. Olfactory detection level is 50 PPM. However, sense of smell is dulled by continuous exposure, so unsatisfactory as a means of detection. Ingestion: Moderately toxic, LD(50) (rats):5g/kg. LD(Lo) (Buman):50mg/kg. Causes burning sensation in mouth and stomach and is likely to produce symptoms similar to those described for inhalation. More serious hazard posed by vomiting after swelling resulting in aspiration(breathing) of vomitus into lungs-which may resulting chemical pheumonitis and pulmonary edema/hemorrhage, and may be fatal

CARCINOGRNICITY: This product is not listed by the Mational Toxicology Program the International Agency for Research on Cancer or the Occupational Safety and Health Administration.

EMERGENCY AND FIRST AID PROCEDURES: Eyes: Flush with water for 15 minutes while holding eyelids open. Get medical attention.

Skin: Plush with water while removing contaminated clothing and shoes, follow by washing with soap and water. Do not reuse clothing or shoes until properly cleaned. If irritation persists, get medical attention.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. Ingestion:

DO NOT INDUCE VONITING. If voniting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Get medical attention

immediately.

NOTE TO PHISICIAN: If more than 2 ml/kg has been ingested, and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric

lavarge using a cuffed endotracheal tube should be considered.

ACTION LEVEL: 4g/L Hippuric Acid level in urine(sampled at end of workday).

STABILITY (choose one): ( ) UNSTABLE (I) STABLE.

COMDITIONS TO AVOID: Not Applicable

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide.

HAZARDOUS POLYMERIZATION (choose one): () MAY OCCUR (I) WILL NOT OCCUR.

CONDITIONS TO AVOID: Not Applicable

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with inert material (sand, vermiculite, etc.) Large spills may be scooped up with non-sparking tools. Remove sources of ignition. Provide ventilation and/or respiratory protection.

WASTE DISPOSAL METHOD: Disposal of HumiSeal products requires strict compliance with local, state and federal regulations pertaining to disposing bazardous waste materials. Contact the appropriate environmental agencies. RESPIRATORY PROTECTION (SPECIFY TYPE): Respirator-organic wapor type if TLV is exceeded(NIOSH approved).

VENTILATION: LOCAL BIHAUST: Yes.

MECHANICAL (GREERAL): Explosion proof.

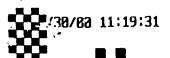
SPECIAL: Designed and maintained to provide volume and patterned to prevent vapor. OTHER: Concentration in excess of TLV or PBL.

PROTECTIVE GLOVES: Impervious to chemical and petroleum(BUNA-W, Solvex etc.).

EYE PROTECTION: Chemical type goggles must be worn.

OTHER PROTECTIVE EQUIPMENT: Prevent contact to workers as required.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from heat, sparks and open flames. Store at ambient temperature. Ground to protect from static charge. Keep container closed. Use adequate ventilation.



# HumiSeal® Rec. 4/3/00 84

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MAR 3 0 2000 PROTECTIVE COATINGS

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THE MOREY CORP.

### FACSIMILE TRANSMISSION FROM HUMISEAL DIVISION

HumiSeal Division/Chase Corporation 26-60 B.Q.E. West \* Woodside, N.Y. 11377 \* U.S.A. Phone: 718-932-0800 \* Fax: 718-932-4345

"HumiSeai Conformal Coating Selector Guide" Offer To receive your FREE "HumiSeal Conformal Coating Selector Guide", please call customer service at 718-932-0800 or fill out the information below and return it to us by fax at 718-932-4345.

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|------|------------|-----------------------|----------|-------------|-----------------------------|
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| (    | )          | HAVE SALESPERSON CALL | (        | )           | NEED ADDITIONAL INFORMATION |
| JPW: | ke/11796/  | /cover                |          |             |                             |

TO:

Unaddressed

FAX: 6309607484

TIME REQUESTED: Thursday, March 30, 2000 11:17 AM

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 6



# HumiSeal 1B31LOC RECEIVED **Acrylic Coating**

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### System Description

HumiSeal 1B31LOC is a very low VOC - under 250 grams per liter\* - non ODC solvent based conformal coating that complies with all current air quality regulations. 1B31LOC is a fast air drying, single component, acrylic coating providing excellent moisture and environmental protection for printed circuit assembles. The final film demonstrates excellent flexibility, is easily repairable and retains all of the film properties of the standard 1B31. Qualification to MIL-I-46058C, Type AR. Fluoresces under UV light for ease of inspection.. (Federal EPA VOC exemption for the primary solvent).

**Properties of Liquid HumiSeal** 

Specific weight, (lb. per gal.) per ASTM, Meth. D1475  $11.2 \pm .2$ Solids Content, % by weight per Fed-Std-141, Meth.4044  $23 \pm 3$ Viscosity, centipoise per Fed-Std-141, Meth. 4287 500 max.

Flashpoint, °C (°F) per ASTM, Meth. D56 22°C (71°F) Drying Time to Handle per Fed-Std-141, Meth.4061 10 minutes

Recommended Curing Conditions 24 hrs @ rm. temp or 30 min.@ 170°F

7 days Time Required to Reach Optimum Properties Thinner, if needed (dipping & brushing) **Contact Factory** 

**Contact Factory** (spraying) Pot Life at Room Temperature 12 months

Shelf Life at Room Temperature 12 months V.O.C. (grams per liter) <250 **Properties of Cured HumiSeal** 

### Thermal Properties

-65°C (-85°F) to +125°C (257°F) Continuous Use Operating Range <sup>o</sup>C(<sup>o</sup>F)

Thermal Shock, per MIL-I-46058C Passes Excellent Solderability 55ppm / °C

Coefficient of Thermal Expansion - DMA 14°C Glass Transition Temperature - TMA Young's Modulus - DMA 7154psi

### **Physical Properties**

Transparent Clarity

Build per Dip, mils, per ASTM, Meth. D823 Excellent Flexibility, per MIL-1-46058C Excellent Adhesion, per ASTM, Meth. D2197

Self-Extinguishing Flammability, per ASTM, Meth. D635

Very Good Weather Resistance

### **Electrical Properties**

>1.500 Dielectric Withstand Voltage, volts per MIL-I-46058C 7500 Dielectric Breakdown Voltage, volts, per ASTM, Meth. D149 Dielectric Constant, at 1MHz and 25°C, per ASTM-D150-65T 2.5 0.01 Dissipation Factor, at 1MHz and 25°C, per ASTM-D150-65T 800 x 10<sup>12</sup> Insulation Resistance, ohms, per MIL-I-46058C 60 x 109 Moisture Resistance, ohms, per MIL-I-46058C

### **Chemical Properties**

Main Constituent Acrylic Fungus Resistance, per ASTM-G21 Excellent Resistance to Chemicals Fair

Values are not intended for use in preparation specifications

# HumiSeal 1B31LOC Acrylic Coating

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### **APPLICATION**

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Cleanliness of the substrate is of extreme importance for the successful application of a conformal coating. Surfaces must be free of moisture, dirt, wax, grease and all other contaminants. Contamination under the coating will cause problems which may lead to assembly failures.

### HumiSeal coatings may be applied by brush, dip or spray.

### Dipping

Depending on the complexity, density and configuration of components on the assembly, it may be necessary to reduce the viscosity of HumiSeal 1B31LOC with HumiSeal Thinner 701 in order to obtain a uniform film. Once optimum viscosity is determined, a controlled rate of immersion and withdrawal (2 to 6" per minute) will further insure even deposition of the coating and ultimately a uniform film. During the application, evaporation of solvent causes an increase in viscosity which should be adjusted by adding small amounts of Thinner 503. Viscosity in the dip tank should be regularly checked by the use of a simple measuring device such as a Zahn or Ford viscosity cup.

### Spraying

HumiSeal Type 1831LOC can be sprayed using conventional spraying equipment. As a rule, the addition of Thinner 701 is necessary to assure a uniform spray pattern resulting in pinhole free film. The amount of thinner and spray pressure will depend on the specific type of spray equipment used. The spraying should be done under an exhaust hood so that the vapor and mist are carried away from the operator.

### **Brushing**

HumiSeal Type 1831LOC may be brushed with a small addition of HumiSeal Thinner 701. Uniformity of the film depends on component density and operator's technique.

### Storage

HumiSeal Type 1B31LOC should be stored at room temperature, away from excessive heat, in tightly closed containers. HumiSeal products may be stored at temperatures of 0-100°F. Avoid direct sunlight. Prior to use, allow the product to equilibrate for 24 hours at 65-90°F.

### Caution

Liquid HumiSeal coatings are flammable. Do not use in presence of open flame or sparks. Avoid inhalation of vapors or spray. Use only in well-ventilated areas. Avoid contact with skin and eyes. If contact occurs, wash with soap and water. If swallowed, call physician immediately.

All technical data in this butletin is based on test results and is believed to be correct. However, since the end use of HumiSeat materials (and the manner of storing and handling them) is beyond our control, we make no warranty-expressed or implied as to the fitness of use, results to be obtained from or effects of use with respect to these materials. Their use shall be solely by the judgment of and at the risk of the user notwithstanding any statement in this butletin. © Copyright 1992 CHASE CORPORATION.

HumiSeal Division Chase Corporation
Woodside, NY 11377-0445/Tel: (718) 932-0800/Fax: (718) 932-4345

HUMISEAL TYPE: 1B31LOC

### MATERIAL SAFETY DATA SHEET

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MANUFACTURER'S NAME: HumiSeal

GENERAL INFORMATION: (718) 932-0800

8) 932-0800 THE MOREY CORP.

**FAX:** (718) 932-4345

EMERGENCY: CHEMTREC; 800-424-9300, ONLY IN THE EVENT OF CHEMICAL EMERGENCIES

INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS. ADDRESS: 26-60 Brooklyn Queens Expressway West, Woodside, NY 11377

CHEMICAL NAME AND SYNONYMS: Acrylic Conformal Coating

TRADE NAME AND SYNONYMS: HumiSeal 1B31LOC

DATE OF REVISION: December 29, 1997

PREPARED BY: Jim Lawrence

SARA: This product contains toxic chemicals listed in section 3A subject to the reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40 CFR 372 (SARA).TSCA: All the chemical components are TSCA listed.

CAIR: Not/Appl.

STATES RIGHT-TO-KNOW LAWS: 100% of all chemical ingredients are listed in section 3 of this MSDS. Information indicated as proprietary will be

released to a physician or appropriate authority in an emergency. **VOC:** 127 grams per liter, or 1.06 pounds per gallon

VOC: 12/ grams per liter, or 1.06 pounds per gallon HMIS/NFPA: Health 1 Fire 3 Reactivity 1 EXTREMELY HAZARDOUS SUBST. LIST (TPQ): Does not apply.

SHIPPING CLASS: UN 1263, Paint, Flammable Liquid

| MATERIAL<br>Section 3A<br>(SARA RQ)  | WT. %   | ACGIH TLV TWA: PPM/MgPerM3 STEL:PPM/MgPerM3 | CAS NO.  |
|--------------------------------------|---------|---------------------------------------------|----------|
| Section 3B<br>Chlorobenzotrifluoride | 60 - 80 | NE/NE<br>NE/NE                              | 98-56-6  |
| Isobutyl Acetate                     | 5 - 10  | 150/713.<br>NE/NE.                          | 110-19-0 |
| Acrylic Resin                        | 20 - 26 | NE/NE                                       | PROP.    |
| Optical brightener                   | <.1     | ne/ne<br>ne/ne                              | PROP.    |

BOILING POINT: 284 F.

VAPOR PRESSURE (mm Hg): 3.8.

VAPOR DENSITY (AIR = 1): 4.6.

SPECIFIC GRAVITY (H20=1): .1.34

HUMISEAL TYPE: 1B31LOC

PERCENT VOLATILE BY VOLUME (%): 67.

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EVAPORATION RATE (Buac=1): .3.

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SOLUBILITY IN WATER: minimum

APPEARANCE AND ODOR: Water clear, low viscosity liquid,

aromatic odor.

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FLASH POINT (METHOD USED): 71 F (Tag Closed Cup).

FLAMMABLE LIMITS: LEL: 1.5 UEL: 10.0.

EXTINGUISHING MEDIA: Foam, Carbon dioxide and dry chemical .

SPECIAL FIRE FIGHTING PROCEDURES: Fight as a flammable liquid fire; wear self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapor is flammable and heavier than air and may travel to source of ignition and flashback.

ROUTES OF ENTRY: SKIN: No INHALATION: Yes INGESTION: No

EFFECTS OF OVEREXPOSURE: Skin irritation, redness, blurred vision, edema, dizziness, fatigue, nausea, vomiting, unconsciousness. Moderately irritating to the eyes. Frequent or prolonged contact may irritate the skin and cause dermatitis. High vapor concentrations are irritating to the respiratory tract. Can cause nausea, headache and dizziness, and anesthetic effects. If ingested, the material has a low order of toxicity, however, small amounts of the liquid aspirated into the lungs, or from vomiting, can cause bronchopneumonia or pulmonary edema which can be fatal-

DO NOT INDUCE VOMITING. CARCINOGENICITY: This product is not listed by the National Toxicology Program the International Agency for Research on Cancer or the Occupational Safety and Health Administration.

EMERGENCY AND FIRST AID PROCEDURES: Consult a physician immediately; wash skin with soap and water. Flush eyes with water for at least 15 minutes and see a physician.

INGESTION: DO NOT INDUCE VOMITING. Keep at rest and GET MEDICAL HELP IMMEDIATELY. Keep head lower than hips to prevent aspiration into lungs. Provide oxygen if breathing is difficult. NOTE TO THE PHYSICIAN: If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

(X) STABLE. STABILITY (Choose one): ( ) UNSTABLE CONDITIONS TO AVOID: Not Applicable .INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide HAZARDOUS POLYMERIZATION (choose one): ( ) MAY OCCUR (X) WILL NOT OCCUR. CONDITIONS TO AVOID: Not Applicable . STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with inert material (sand, vermiculite, etc.). Large spills may be scooped up

HUMISEAL TYPE: 1B31LOC

with non -sparking tools. Remove sources of ignition. Provide ventilation and/or respiratory protection.

WASTE DISPOSAL METHOD: Disposal of HumiSeal products requires strict compliance with local, state and federal regulations pertaining to disposing hazardous waste materials. Contact the appropriate environmental agencies.

RCRA WASTE No./RO:None.

CERCLA: None.

RESPIRATORY PROTECTION (SPECIFY TYPE): Respirator-organic vapor type if TLV is exceeded.

VENTILATION:LOCAL EXHAUST: Yes MECHANICAL (GENERAL): Explosion proof. SPECIAL: Designed and maintained to provide volume and patterned to prevent vapor.

OTHER: Concentration in excess of TLV or PEL.

PROTECTIVE GLOVES: Impervious to chemicals and petroleum.

EYE PROTECTION: Chemical type goggles must be worn.

OTHER PROTECTIVE EQUIPMENT: Prevent contact to workers as required. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from heat, sparks and open flames. Store at ambient temperature. Ground to protect from static charge.

OTHER PRECAUTIONS: Keep container closed. Use adequate ventilation. Avoid contact with eyes, skin and clothing.

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HUMISEAL TYPE 1A33

Page 002

### MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME: HumiSeal GENERAL INFORMATION:(718) 932-0800

FAX: (718) 932-4345

EMERGENCY; CHEMTREC; 800-424-9300, ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE,

EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

ADDRESS: 26-60 Brooklyn Gueens Expressway West, Woodside, NY 11377

CHEMICAL NAME AND SYNONYMS: Polyurethane Conformal Coating

TRADE NAME AND SYNONYMS: Humiswal 1A33

DATE OF REVISION: NOV.6, 1995 PREPARED BY: Jim Lawrence

SARA: This product contains toxic chemicals listed in section 3A subject to the reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40 CFR 372

(SARA).TSCA:All the chemical components are TSCA listed.

CAIR: Not/Appl.

WARNING: This product contains a chemical known to the state of California to cause birth defects or other eproductive harm.

STATES RIGHT-TO-KNOW LAWS: 100% of all chemical ingredients are listed in section 3 of this MSDS. Information indicated as proprietary will be released to a physician or appropriate authority in an emergency.

S.C.A.Q.M.: VOC 508 greens per Liter, HMIS/MFPA: Health 3 Fire 3 Reactivity 0

EXTREMELY HAZARDOUS SUBST. LIST (TPQ): Does not apply.

SHIPPING CLASS:UN 1263, Paint, Flammable Liquid

| MATERIAL               | א, זע           | ACGIN TLV        | CAS NO.   |  |  |
|------------------------|-----------------|------------------|-----------|--|--|
| Section 3A(\$ara RQ)   | TWA:PPM/MgPerM3 |                  |           |  |  |
|                        |                 | STEL:PPM/MgPerM3 |           |  |  |
| Xylone (1% SARA)       | 35-44           | 100/434          | 1330-20-7 |  |  |
|                        |                 | 651/651          |           |  |  |
| Ethyl Benzene(1% SARA) | 2-6             | 100/434          | 100-41-4  |  |  |
| ,                      |                 | 543/543          |           |  |  |
| Toluene(1% SARA)       | 2-6             | 100/377          | 105-88-3  |  |  |
|                        |                 | 565/565          |           |  |  |
| Methyl Ethyl Ketone-   | 2-6             | 200/590          | 76-93-3   |  |  |
| (1% SARA)              |                 | 885/885          |           |  |  |
| Section 38             |                 |                  |           |  |  |
| Oil Mod. polyurethane  | 44-50           | W/E              | Prop.     |  |  |
| Optical brightener     | .1              | N/E              | Prop.     |  |  |
| Fungicide              | . 1             | H/E              | Prop.     |  |  |

BOILING POINT: 279 F.

VAPOR PRESSURE(mm Ng): 19.4.

VAPOR DEWSITY(AIR= 1): 3.6.

SPECIFIC GRAVITY (H20=1): .93.

PERCENT VOLATILE BY VOLUME (%): 45-55 .

EVAPORATION RATE (BUAC=1): 3.17.

SOLUBILITY IN WATER: Nogligible, less than 0.1 percent. APPEARANCE AND ODOR: Water clear (fquid, solvent odor.

### HUMISEAL TYPE 1433

FLASH POINT (NETHOD USED): 30 F (Tag Closed Cup).

FLAMMABLE LIMITS: LEL:1.0 UEL: 7.0.

EXTINGUISHING MEDIA: Form,

Carbon dioxide and dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Fight as a flammable liquid fire; wear self contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION MAZARDS: Vapor is flammable and heavier than air and may travel to source of ignition and flashback.

**->** 

ROUTES OF ENTRY: \$KIN: Yes INHALATION: Yes INGESTION: Yes EFFECTS OF OVEREXPOSURE: Eyes: Liquid is minimally irritating to the eyes. High vapor concentration may also be irritating. SKIN: Contact with liquid is mildly irritating. Prolonged or repeated contact can result in defatting and drying of the skin, resulting in dermatitis.

INHALATION: Vepors may be irritating to the nose, throat and respiratory tract. High vapor concentrations may cause CNS depression.

INGESTION: Liquid is moderately toxic and can be harmful if swallowed.

May produce CNS depression, may result in vomiting. Aspiration of vomitus must be avoided as even small quantities may result in Aspiration Pneumonitis. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness and nauses.

EXTREME CASES: Unconsciousness and death may occur. Aspiration Pheumonitis may be evidenced by coughing, labored breathing and cymnosis(bluish skin), in severe cases death may occur. Preexisting eye skin and respiratory conditions may be aggravated by exposure to this product. Near fatal exposures may result in congestive effects to a wide variety of organs. Lab animals exposed by various routes to high doses showed evidence in the liver, kidneys, lungs, spieen, heart and adrenal. Rats exposed to vapor during pregnancy showed embryo/fetotoxic effects. Nice exposed orally to doses producing maternal toxicity also showed embryo/fetotoxic effects.

CARCINCOENICITY: This product is not listed by the National Toxicalogy Program the International Agency for Research on Cancer or the Occupational Safety and Health Administration.

EMERGENCY AND FIRST AID PROCEDURES: EYE CONTACT: Flush with water for 15 minutes while holding syelids open.Get medical attention.

SKIN CONTACT: Wash with soap and water, remove contaminated clothing, do not use until cleaned. If persistent irritation occurs, get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing.

GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into tungs.

GET HEDICAL ATTENTION: NOTE TO THE PHYSICIAN: If more than 2mt/kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

STABILITY (choose one): ( )UNSTABLE (X)STABLE.

CONDITIONS TO AVOID: Not Applicable.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong exidizing agents.

MAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION (choose one): ( )MAY OCCUR (X)WILL NOT OCCUR.

CONDITIONS TO AVOID: Not Applicable.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with inert material (sand, vermiculite, etc.). Large spills may be accoped up with non-sparking tools. Remove sources of ignition. Provide ventilation and/or respiratory protection.

WASTE DISPOSAL METHOD: Disposal of Humiseal products requires strict compliance with local, state and federal regulations perteining to disposing hazardous waste materials. Contact the appropriate environmental agencies.RCRA Waste No./RQ:Toluene; U220/1000Lbs., MEK;U159/50DDLbs., Xylene;U239/1000Lbs. Ethyl Benzene

HUMISEAL TYPE 1A33

;No./1000lbs. CERCLA: Xylene;1000lbs. Ethyl Benzene 1000lbs. Toluene;1000Lbs.,MEK;5000Lbs.

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RESPIRATORY PROTECTION (SPECIFY TYPE): Respiratory-organic vapor type if TLV is exceeded (NIOSH approved). VENTILATION: LOCAL EXHAUST: Yes.

MECHANICAL (GENERAL): Explosion proof

SPECIAL: Designed and maintained to provide volume and patterned to prevent vapor.

OTHER: Concentration in excess of TLV or PEL,

PROTECTIVE GLOVES: Impervious to chemical and petroleum(BUNA-N, Solvex etc.). EYE PROTECTION: Chemical type gossies must be worn.

OTHER PROTECTIVE EQUIPMENT: Prevent contact to workers as required.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from heat, sparks and open flames. Store at ambient temperature. Ground containers when pouring to prevent static spark. Keep containers closed. Use adequate ventilation.

Rec. 4/3/00 Ap

HUMISEAL TYPE: THINNER 801

MATERIAL SAFETY DATA SHEET

TMC# 1261583

MANUFACTURER'S NAME: HUMISEAL

GENERAL INFORMATION: (718) 932-0800 FAX: (718) 932-4345

EMERGENCY; CHEMTREC: (800) 424-9300, ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

ADDRESS: 26-60 Brooklyn Queens Expressway West, Woodside, NY 11377

CHEMICAL NAME AND SYNONYMS: conformal coating thinner TRADE NAME AND SYNONYMS: thinner for HumiSeal 1B31LSE

DATE OF REVISION: May 18, 1999

PREPARED BY: Edward Mines

SARA: This product contains no toxic chemicals listed in section 3A subject to the

reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40 CFR 372 (SARA).

TSCA: All the chemical components are TSCA listed.

CAIR: Not/Appl.

STATES RIGHT-TO KNOW LAWS: 100% of all chemical ingredients are listed in section 3 of this MSDS. Information indicated as proprietary will be released to a physician or appropriate authority in an emergency.

S.C.A.Q.M.: VOC 250 grams per liter with exemption, 860 grams per liter without exemption. Exemption for primary solvent is pending.

HMIS/NFPA: Health 1 Fire 3 Reactivity 0

EXTREMELY HAZARDOUS SUBST. LIST (TPQ): Does not apply.

SHIPPING CLASS: UN 1263, Paint, Flammable Liquid

MATERIAL WT. \* ACGIH TLV CAS\*

TWA: PPM/MgPerM3 STEL:PPM/MgPerM3

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Section 3A (Sara RQ)

Section 3B

t butyl acetate 71 200/950 540-88-5 NE/NE

hexyl acetates 29 NE/NE 88230-35-7 NE/NE

BOILING POINT: 208F

VAPOR PRESSURE (mm Hg): 85 VAPOR DENSITY (AIR =1): 2.0

SPECIFIC GRAVITY: .86

PERCENT VOLATILE BY VOLUME (%): 100

EVAPORATION RATE (BuAc = 1) : 2.8

SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Water clear, low viscosity liquid, fruity odor.

FLASH POINT (METHOD USED): (Tag Closed Cup): 60F

FLAMMABLE LIMITS: LEL: 1.26 UEL: 6.88

EXTINGUISHING MEDIA: Foam, carbon dioxide and dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Fight as a flammable liquid fire; wear self contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS:

HUMISEAL TYPE: THINNER 801

Vapor is flammable and heavier than air and may travel to source of ignition and flashback.

ROUTES OF ENTRY: SKIN: Yes. INHALATION: Yes. INGESTION: Yes.

### EFFECTS OF EXPOSURE:

term contact may result in slight eye irritation and Short conjunctivitis. Prolonged contact with liquid can result in corneal burns. High vapor concentrations > approx. 1000PPM are irritating to the eyes. Skin: Prolonged and repeated liquid contact can cause defatting and drying of the skin, which may result in skin irritation and dermatitis. Dermal LD(50) (Rabbits):>2000mg/Kg.Skin absorption may add significantly exposure.

Inhalation: Causes central nervous system depression. Mild exposure causes dizziness, weakness, headache, nausea, etc.. More severe exposures, greater than approx. 1000PPM, may cause respirator depression, convulsions and death. Cardiac arrhythmias, including fatal ventricular fibrillation, may occur.1h1-rat LCLo: 4000PPM/4 hrs. Olfactory detection level is 50 PPM. However, sense of smell is dulled by continuous exposure, so unsatisfactory as a means of detection. Ingestion: Moderately toxic, LD(50)(rats):5g/kg. LD(Lo) (Human):50mg/kg. Causes burning sensation in mouth and stomach and is likely to produce symptoms similar to those described for inhalation. More after serious hazard posed by vomiting swelling resulting aspiration (breathing) of vomitus into lungs-which may resulting chemical pneumonitis and pulmonary edema/hemorrhage, and may be fatal

CARCINOGENICITY: This product is not listed by the National Toxicology Program the International Agency for Research on Cancer or the Occupational Safety and Health Administration.

EMERGENCY AND FIRST AID PROCEDURES: Eyes: Flush with water for 15 minutes while holding eyelids open. Get medical attention.

Skin: Flush with water while removing contaminated clothing and shoes, follow by washing with soap and water. Do not reuse clothing or shoes until properly cleaned. If irritation persists, get medical attention.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing.Get attention.Ingestion:

DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Get medical attention immediately.

NOTE TO PHYSICIAN: If more than 2 ml/kg has been ingested, and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric

lavarge using a cuffed endotracheal tube should be considered.

ACTION LEVEL: 4g/L Hippuric Acid level in urine (sampled at end of workday). STABILITY (choose one): ( ) UNSTABLE (X) STABLE.

CONDITIONS TO AVOID: Not Applicable

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide. HAZARDOUS POLYMERIZATION (choose one); () MAY OCCUR (X) WILL NOT OCCUR.

CONDITIONS TO AVOID: Not Applicable

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with inert material (sand, vermiculite, etc.) Large spills may be scooped up with non-sparking tools. Remove sources of ignition. Provide ventilation and/or

respiratory protection.

WASTE DISPOSAL METHOD: Disposal of HumiSeal products requires strict compliance with local, state and federal regulations pertaining to disposing hazardous waste materials. Contact the appropriate environmental agencies.

RESPIRATORY PROTECTION (SPECIFY TYPE): Respirator-organic vapor type if TLV is exceeded (NIOSH approved).

VENTILATION: LOCAL EXHAUST: Yes.

MECHANICAL (GENERAL): Explosion proof.

SPECIAL: Designed and maintained to provide volume and patterned to prevent vapor. OTHER: Concentration in excess of TLV or PEL.

**PROTECTIVE GLOVES:** Impervious to chemical and petroleum (BUNA-N, Solvex etc.).

EYE PROJECTION: Chemical type goggles must be worn.

OTHER PROTECTIVE EQUIPMENT: Prevent contact to workers as required.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from heat, sparks and open flames. Store at ambient temperature. Ground to protect from static charge. Keep container closed. Use adequate ventilation.

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HUNISKAL TYPE: THINKER 521

### NATERIAL SAFETY DATA SHEET

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NAMUPACTURER'S NAME: RumiSeal GENERAL IMPORNATION: (718) 932-0800

FAX: (718) 932-4345

EMERGENCY; CHEMITREC; (800) 424-9300, ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, PIRE,

EXPOSURE, OR ACCIDENT INVOLVING CEDMICALS.

ADDRESS: 26-60 Brooklyn Queens Expressway West, Woodside, MY 11377

CHEMICAL MAKE AND SYNORYMS: Solvent Solution TRADE NAME AND SYNORYMS: BumiSeal Thinner 521

DATE OF REVISION: July 19, 1995 PREPARED BY: Jim Lawrence

SARA: This product contains toxic chemicals listed in section 3A subject to the reporting requirements of section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 and 40 CFR 372 (SARA). TSCA: All the chemical components are TSCA listed.

CAIR: Not/Appl

WARWING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

STATES RIGHT-TO-KNOW LAWS: 100% of all chemical ingredients are listed in section 3 of this MSDS. Information indicated as proprietary will be released to a physician or appropriate authority in an emergency.

S.C.A.Q.M.: VOC 868 grams per liter.

BMIS/MFPA: Health 3 Fire 3 Reactivity 0

EXTREMELY HAZARDOUS SUBST. LIST (TPQ): Does not apply.

SHIPPING CLASS: UN 1263, Paint Related Material, Flanmable Liquid

| NATERIAL<br>Section 3A(Sara RQ) | wr. t      | acgir TLV<br>Tra:PPH/NgPerN3<br>STEL:PPH/NgPerN3 | CAS NO.   |
|---------------------------------|------------|--------------------------------------------------|-----------|
| Tylene(1% SARA)                 | 75-85      | 100/434<br>651/651                               | 1330-20-7 |
| Ethyl Benzene(18 SA             | IRA) 10-20 | 100/434<br>543/543                               | 100-41-4  |
| Toluene(1% SARA)                | 5          | 100/377<br>150/565                               | 108-88-3  |

BOILING POINT: 279 F.
VAPOR PRESSURE(mm Hg): 19.4.
VAPOR DENSITY(AIR= 1): 3.6.
SPECIFIC GRAVITY (H2O=1): .87.
PRESENT VOLATILE BY WOLDER (8): 100.

PERCENT FOLATILE BY VOLUME (\$): 100. EVAPORATION RATE (BUAC=1): 0.60.

SOLUBILITY IN WATER: Megligible, less than 0.1 percent. APPEARANCE AND COOR: Water clear liquid, solvent odor. FLASH POINT (NOTHOD USED): 80 F (Tag Closed Cup).

PLANNING LIMITER: LEL:0.9 UEL: 6.8.EXTINGUISHING MEDIA: Foam, Carbon dioxide and dry chemical.

and contained breathing apparatus.

BUNISBAL TYPE: THIMKR 521

ROOTES OF EMPRY: SKIN; Yes THEALATION: Yes INGESTION: Yes

EFFECTS OF OVEREXPOSURE: Eyes: Liquid is minimally irritating to the eyes. High vapor concentration may also be irritating. Skin: Contact with liquid is mildly irritating. Prolonged or repeated contact can result in defatting and drying of the skin, resulting in dermatitis.

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INHALATION: Vapors may be irritating to the nose, throat and respiratory tract. High vapor concentrations may cause CNS depression.

INGESTICM: Liquid is moderately toxic and can be barmful if swallowed. May produce CMS depression, may result in vomiting. Aspiration of vomitus must be avoided as even small quantities may result in Aspiration Pneumonitis. Early to moderate CMS depression may be evidenced by glddiness, headache, dizziness and mausea.

EXTREME CASES: Unconsciousness and death may occur. Aspiration Pneumonitis may be evidenced by coughing, labored breathing and cyanosis (bluish skin), in severe cases death may occur. Preexisting eye skin and respiratory conditions may be aggravated by exposure to this product. Mear fatal exposures may result in congestive effects to a wide variety of organs. Lab animals exposed by various routes to high doses showed evidence in the liver, kidneys, lungs, spleen, heart and adrenal. Rats exposed to vapor during pregnancy showed embryo/fetotoxic effects. Hice exposed orally to doses producing maternal toxicity also showed embryo/fetotoxic effects. CARCINOGENICITY: This product is not listed by the National Toxicology Program the International Agency for Research on Cancer or the Occupational Safety and Mealth Administration.

EMERGENCY AND FIRST AID PROCEDURES: MYE CONTACT: Flush with water for 15 minutes while holding eyelids open.GRT MEDICAL ATTENTION. SKIN CONTACT: Wash with soap and water, remove contaminated clothing, do not use until cleaned. If persistent irritation occurs, GRT NEDICAL ATTENTION.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing.

GRT MEDICAL ATTENTION. INGESTION: DO NOT INDOCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.

GET MEDICAL ATTENTION: MOTE TO THE PHYSICIAM: If more than 2ml/kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

STABILITY (choose one): ( ) UNSTABLE (I) STABLE.

COMPLITIONS TO AVOID: Not Applicable. INCOMPATABILITY: (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents.

HAYARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide.

HALLEDOUS POLYMERIZATION (choose one): () MAY OCCUR (X)WILL NOT OCCUR.COMDITIONS TO AVOID: Not applicable.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with inert material (sand, vermiculite, etc.).

Large spills may be scooped up with non-sparking tools. Remove sources of ignition. Provide ventilation and/or respiratory protection.

WASTE DISPOSAL METHOD: Disposal of Numiscal products requires strict compliance with local, state and federal regulations pertaining to disposing hazardous waste materials. Contact the appropriate environmental agencies.RCRA Waste No./RQ: Toluene;U220/1000lbs. Kylene;U239/1000lbs. Ethyl Benzene;No./1000lbs. CERCLA: Toluene;1000lbs. Kylene;1000lbs. Ethyl Benzene 1000lbs.

RESPIRATORY PROTECTION (SPECIFY TYPE): Respiratory-organic vapor type if TLV is exceeded(NIOSH approved).

VENTILATION: LOCAL RIEAUST: Yes.

MECHANICAL (GENERAL): Explosion proof SPECIAL: Designed and maintained to provide volume and patterned to prevent vapor.

OTHER: Concentration in excess of TLV or PEL.

PROTECTIVE GLOVES: Impervious to chemical and petroleum(BUMA-M,Solvex etc.).

MYE PROTECTION: Chemical type goggles must be worn.

OTHER PROTECTIVE EQUIPMENT: Prevent contact to workers as required.

PRECAUTIONS TO BE TAKEN IN MANDEING AND STORING: Keep away from heat, sparks and open flames. Store at ambient temperature. Ground containers when pouring to prevent static spark. Keep containers closed. Use adequate ventilation.

# **HumiSeal®**

### PROTECTIVE COATINGS

### FACSIMILE TRANSMISSION FROM HUMISEAL DIVISION

<u>"HumiSeal Conformal Coating Selector Guide" Offer</u>
To receive your FREE "HumiSeal Conformal Coating Selector Guide", please call customer

->

Humiseal Division/Chase Corporation 26-60 B.Q.E. West \* Woodside, N.Y. 11377 \* U.S.A. Phone: 718-932-0800 \* Fax: 718-932-4345

service at 718-932-0800 or fill out the information below and return it to us by fax at 718-932-4345.

NAME:

COMPANY:

ADDRESS:

CITY:

STATE:

ZIP:

PHONE:

( ) NEED ADDITIONAL INFORMATION

TO: Un

JPW:ke/11796/cover

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FAX: 6309649690

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### ENGINEERING ADHESIVES

### **BULLETIN HM7804**

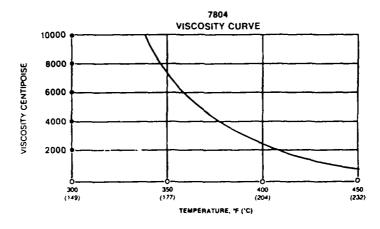
### **HYSOL 7804**

Polyamide Hot Melt Adhesive

### DESCRIPTION

Hysol 7804 is a tough, elastomeric, high performance polyamide hot melt with excellent impact resistance at low temperatures. It is recommended for demanding applications where substrates may be exposed to temperature extremes. 7804 bonds to many difficult substrates including: metals, plastics, wood, leather, fabric, non-woven fabric, films, and foils.

| PRODUCT SPECIFICATIONS                |           | Test Method  |
|---------------------------------------|-----------|--------------|
| Softening Point, °F (°C)              | 280 (137) | ASTM E28-67  |
| Viscosity @ 350°F (177°C), centipoise | 7000      | *Thermosel   |
| Specific Gravity @ RT, g/cc           | 1.01      | ASTM 1475    |
| Tensile Strength, PSI                 | 340       | ASTM D638-68 |
| Elongation, %                         | 900       | ASTM D638-68 |



### PERFORMANCE CHARACTERISTICS

| Adhesive Tensile, PSI       |     | ASTM 897-72  |
|-----------------------------|-----|--------------|
| PVC/PVC                     | 200 |              |
| Nylon/Nylon                 | 105 |              |
| ABS/ABS                     | 100 |              |
| Polycarbonate/Polycarbonate | 185 |              |
| Heat Resistance, °F         | 220 | HysolHTPSK-1 |

<sup>\*</sup>Brookfield RVT, Spindle SC4-27

MOR 000896

IMPORTANT: User shall determine the suitability of the product for his intended use and assume all risk and liability in connection therewith. All information supplied by Dexter is based on our belief that it is reliable and is intended for use by persons having technical skill at their own discretion and risk. Since conditions of use are outside of Dexter's control, we can assume no kability for results obtained or damages incurred through the application of the data presented.

| *ELECTRICAL PROPERTIES           |                        | Test Method |
|----------------------------------|------------------------|-------------|
| Dielectric Strength V/mil        | 600                    | ASTM D-149  |
| Dielectric Constant, K           | 6.0                    | MIL-1-16923 |
| Dissipation Factor, D            | 0.14                   | ASTM D-150  |
| Volume Resistivity, ohm-cm (pv)  | 2.0 x 10 <sup>13</sup> | ASTM D-257  |
| Surface Resistivity, ohm-cm (sv) | 2.4 x 10 <sup>13</sup> | ASTM D-257  |

### **APPLICATION**

Hysol offers a complete line of reliable, portable, hand held applicators specifically designed to accurately dispense all shaped hot melt formulations. There are many excellent bulk hot melt applicators available. Your local Hysol salesman will be happy to help you with your selection.

### AVAILABILITY

Available forms include pellets in poly-lined 40 lb. cartons and shaped forms for hand held applicators.

4/93 - 500

<sup>\*</sup>Tests run @ 77°F (25°C)

### MATERIAL SAFETY DATA SHEET

DISTRIBUTOR PROGRAMS THE DEXTER CORPORATION ONE DEXTER DRIVE SEABROOK, NH 03874

TELEPHONE 603-474-5541 EMERCENCY 1-800-424-9300 5/21/96 (FOR EMERGENCY USE ONLY)

PRODUCT CODE: JM7804-

DESCRIPTION: 7804 -10"

REVISION 05/03/96

\* N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

SECTION I - NOMENCLATURE

CHEMICAL NAME AND SYNONYMS Adhesive

TRADE NAME AND SYNONYMS

7804

CHEMICAL FAMILY Thermoplastic polyamide resin

Diacids polymerized with diamines

SECTION II - HAZARDOUS INGREDIENTS & SECTION 313 SUPPLIER NOTIFICATION

If a hazardous ingredient is identified as being a toxic chemical via hazard code "A", that chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR372.

HAZARD CODES(HAZD):
 C=Carcinogen (OSHA, NTP, IARC)
 H=Hazardous(OSHA)
 P=California Prop 65(carcinogen)
 A=Superfund Amendments and Reauthorization Act(SARA)

PEL MEAS. CAS NBR HAZD HAZARDOUS MATERIAL % by Wt. TLV MEAS.

Not Applicable

SECTION III - PHYSICAL DATA

BOILING PT (DEG. F) SPECIFIC GRAVITY 0.99 N.A.

VAPOR PRESSURE (MM HC) PCT VOLATILE BY VOL N.A. N.A.

VAPOR DENSITY (AIR=1) N.A. EVAPORATION RATE N.A.

SOLUBILITY IN WATER Nil. MELT POINT 28C F

APPEARANCE AND ODOR-Amber/No noticeable odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (DEG. F) METHOD USED N.A. Above 450F

UPPER EXPLO. LEVEL UNKNOWN LOWER EXPLO. LEVEL UNKNOWN

EXTINGUISHING MEDIA-Water, CO2, foam, dry chemical

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

JM7804 CONTINUED...

SPECIAL FIRE FIGHTING PROCEDURES-

UNUSUAL FIRE AND EXPLOSION HAZARDS-None

### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE-Not Applicable

EFFECTS OF OVEREXPOSURE-Unknown

EMERGENCY AND FIRST AID PROCEDURES-Skin: Wash with soap and water Eyes: Flush with water

WARNING!

Molten hot melt adhesive can cause severe burns upon contact with skin.

### SECTION VI - REACTIVITY DATA

STABILITY

STABLE

CONDITIONS TO AVOID-

INCOMPATIBILITY (MATERIALS TO AVOID)-Not Applicable

HAZARDOUS DECOMPOSITION PRODUCTS-Carbon monoxide(from partial combustion as for most organic materials)

HAZARDOUS POLYMERIZATION-Will not occur

CONDITIONS TO AVOID-

### SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-Sweep up to avoid any slipping hazard

WASTE DISPOSAL METHOD-Dispose of according to all local, state and federal laws.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE) - None when using adequate ventilation

YENTILATION-Recommended when heating

PROTECTIVE GLOVES-Heat protective gloves

EYE PROTECTION-Goggles

OTHER PROTECTIVE EQUIPMENT-Not required

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING-None known

OTHER PRECAUTIONS-

WARNING!

PAGE 2

Molten hot melt adhesive can cause severe burns upon contact with skin.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*The information and recommendations contained herein are based upon data\* 

NAME: Ken DeCosta

DATE 5/21/96 FAGE 3 OF 3





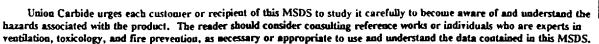
MOR 000901

### UNION CARBIDE CHEMICALS AND PLASTICS COMPANY INC.



# Solvents & Coatings Materials Division MATERIAL SAFETY DATA SHEET

### EFFECTIVE DATE 09/23/94



To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers, and other users of the product of this information.

# I. IDENTIFICATION PRODUCT NAME: ISOPROPANOL, ANHYDROUS CHEMICAL NAME: Isopropyl Alcohol CHEMICAL FAMILY: Alcohols FORMULA: (CH3)2 CHOH MOLECULAR WEIGHT: 60,10 SYNONYMS: 2-Propanol; dimethyl carbinol CAS # AND NAME: 67-63-0 2-Propanol II. PHYSICAL DATA BOILING POINT, 760 mm Hg: 82.26 C (180.07 F) SPECIFIC GRAVITY(H20 = 1): 0.7864 at 20/20 C FREEZING POINT: -88.5 C (-127.3 **VAPOR PRESSURE AT 20'C:** 33 mmHg Copyright 1994 Union Carbide EMERGENCY PHONE NUMBERS: 1-800-UCC-HELP (NUMBER AVAILABLE AT ALL TIMES) OR (304) 744-3487

UNION CARBIDE CHEMICALS AND PLASTICS COMPANY INC Solvents & Coatings Materials Division 39 Old Ridgebury Road, Danbury, CT 06817-0001

PRODUCT NAME: ISOPROPANOL, ANHYDROUS VAPOR DENSITY (AIR = 1): 2.07 **EVAPORATION RATE (Butyl Acetate = 1):** 2.88 SOLUBILITY IN WATER by wt: Complete at 20 C APPEARANCE: Transparent colorless ODOR: Characteristic PHYSICAL STATE: Liquid PERCENT VOLATILES (by weight): 100 III. INGREDIENTS <u>%</u> MATERIAL CAS# **EXPOSURE LIMIT** ~100 isopropanol 67-63-0 See Section V IV. FIRE AND EXPLOSION HAZARD DATA FLASH POINT: 53 F (12 C) Tag Closed Cup ASTM D 56 (17 C) Tag Open Cup ASTM D 1310 i FLAMMABLE LIMITS IN AIR LOWER: **UPPER:** 12.7 @ 200 F % by volume: **EXTINGUISHING MEDIA:** Apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires. SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire-exposed containers and structures.

Use water spray to disperse vapors; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.

MOR 000903

### UNUSUAL FIRE AND **EXPLOSION HAZARDS:**

Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point.

Vapors from this material may settle in low or confined areas or travel a long

distance to an ignition source and flash back explosively.

This material may produce a floating fire hazard.

See "Other Precautions" in Section IX.

### V. HEALTH HAZARD DATA

**EXPOSURE LIMIT(S):** 

Isopropanol: 400 ppm TWA, OSHA & ACGIH 500 ppm STEL, OSHA & ACGIH

### EFFECTS OF ACUTE OVEREXPOSURE:

SWALLOWING:

Slightly toxic. May cause abdominal discomfort, nausea, vomiting and diarrhea.

Loss of consciousness may occur.

Drowsiness may occur.

SKIN ABSORPTION:

Exposure to small quantities is not expected to cause adverse health effects. Widespread or prolonged exposure may result in the absorption of harmful amounts of material, particularly in infants, leading to signs and symptoms

as described for swallowing.

INHALATION:

Vapor causes irritation of the respiratory tract, with coughing and chest

discomfort.

High concentrations of vapor may cause headache and drowsiness.

SKIN CONTACT:

May cause minor irritation with itching and possible slight local redness. Prolonged or repeated contact may cause defatting and drying of the skin.

**EYE CONTACT:** 

Causes irritation, experienced as stinging and discomfort or pain.

Corneal injury may occur.

### **EFFECTS OF REPEATED OVEREXPOSURE:**

No adverse effects anticipated from available information.

OTHER HEALTH HAZARDS:

None currently known.

### MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

Skin contact may aggravate an existing dermetitis.

### ADDITIONAL TOXICITY INFORMATION:

The following is a summary of TSCA Section 4 Test Rule results: Large doses (>800 mg/kg/day) of isopropanol given orally to pregnant rats during the critical period of gestation produced slight decreases in fetal weight. These doses also caused evidence of toxicity in the mothers. Oral doses as high as 480 mg/kg/day caused evidence of toxicity in pregnant rabbits but did not produce evidence of embryo or fetal toxicity. Isopropanol did not produce an increased incidence of malformations (teratogenicity) in either species. An indication of reduced mating performance in 2nd generation male rats was noted at oral doses of 1000 mg/kg/day in a two generation reproductive study. Increased neonatal mortality was also seen at doses of 500 mg/kg/day and greater in this study.

No evidence of neurotoxic effects was observed in studies specifically designed to assess neurobehaviorial functions in neonatal rats after oral dosing of mothers during gestation and lactation. In an acute vapor inhalation study, high concentrations of isopropanol (1500 ppm and greater) caused a spectrum of transient effects indicative of narcosis. In repeated inhalation exposure studies, high vapor concentrations (5000 ppm) produced an increase in motor activity in rats first noted after 4 weeks of exposure. The effect was reversible completely resolving within 14 days after 13 weeks of exposure. No evidence of damage to nerve tissue was seen in this study. Repeated exposure to isopropanol vapor produced hyaline droplet nephropathy in male rats, an effect considered not to have relevance to human health hazard assessment. No other target organ effects were seen in either rats or mice after 3 months of exposure to vapor concentrations up to 5000 ppm. No evidence suggestive of carcinogenic activity was noted in chronic vapor inhalation studies with isopropanol in rate and mice.

### **EMERGENCY AND FIRST AID PROCEDURES:**

SWALLOWING:

If patient is fully conscious, give two glasses of water. Induce vomiting.

Obtain medical attention.

SKIN:

Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.

INHALATION:

Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain

medical attention.

EYES:

Immediately flush eyes with water and continue washing for several minutes.

Remove contact lenses, if worn. Obtain medical attention.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

### VI. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:

None known.

INCOMPATIBILITY (materials to avoid):

Strong oxidizing agents.

Helogens.

Strong inorganic acids.

Aldehvdes.

Halogen compounds.

### **HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:**

Burning can produce the following products: Carbon monoxide and/or carbon dioxide.

Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient

concentrations can act as an asphyxiant.

HAZARDOUS POLYMERIZATION: Will Not Occur

**CONDITIONS TO AVOID:** 

None known.

### VII. SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Extinguish and do not turn on any ignition source until the area is determined

to be free from fire or explosion hazard. Wear suitable protective equipment.

Avoid contact with eyes.

Small spills can be flushed with large amounts of water; larger spills should

be collected for disposal.

### WASTE DISPOSAL METHOD:

Incinerate in a furnace where permitted under Federal, State, and local

regulations.

At very low concentrations in water, this product is biodegradable in a

biological wastewater treatment plant.

### VIII. SPECIAL PROTECTION INFORMATION

### RESPIRATORY PROTECTION:

Use self-contained breathing apparatus in high vapor concentrations.

**VENTILATION:** 

General (mechanical) room ventilation is expected to be satisfactory where

this product is stored and handled in closed equipment.

Special, local ventilation is needed at points where vapors can be expected to

escape to the workplace air.

PROTECTIVE GLOVES:

**Plastic** 

Rubber

EYE PROTECTION:

Monogoggles

### OTHER PROTECTIVE EQUIPMENT:

Eye Bath, Safety Shower

### IX. SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

**WARNING!** FLAMMABLE.

CAUSES EYE IRRITATION.

Keep away from heat, sparks and flame.

Avoid contact with eyes.

Keep container closed.

Use with adequate ventilation.

Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other

flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point.

Wash thoroughly after handling.

### FOR INDUSTRY USE ONLY

### **OTHER PRECAUTIONS:**

PROCESS HAZARD: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions.

Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Further information is available in a technical bulletin entitled "Ignition Hazards of Organic Chemical Vapors."

TRANSFER HAZARD: Vapors of this product may be ignited by static sparks. Use proper bonding and grounding during liquid transfer as described in National Fire Protection Association document NFPA 77.

### X. REGULATORY INFORMATION

### STATUS ON SUBSTANCE LISTS:

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Trade Secrets are indicated by "TS".

### **FEDERAL EPA**

Comprehensive Environmental Response Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.

Components present in this product at a level which could require reporting under the statute are:

""" NONE """

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

••• NONE •••

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

" " NONE " " "

Toxic Substances Control Act (TSCA) STATUS:

The ingredients of this product are on the TSCA inventory.

### **STATE RIGHT-TO-KNOW**

### **CALIFORNIA Proposition 65**

This product does not contain materials which the State of California has found to cause cancer, birth defects, or other reproductive harm.

MASSACHUSETTS Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

HAZARDOUS SUBSTANCES ( => 1%)

**UPPER BOUND** 

CHEMICAL

CAS NUMBER CONCENTRATION %

Isopropanol

67-63-0 100

PENNSYLVANIA Right-to-Know, Hazardous Substance List Hazardous Substances and Special Hazardous Substances on the List must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

HAZARDOUS SUBSTANCES ( => 1%)

**UPPER BOUND** 

CHEMICAL

CAS NUMBER

**CONCENTRATION %** 

Isopropanol

67-63-0

100

CALIFORNIA SCAQMD RULE 443.1 VOC'S:

VOC 785 g/l; Vapor Pressure 33 mm Hg @ 20 C

OTHER REGULATORY INFORMATION:

EPA Hazard Categories: Immediate Health, Delayed Health, and Fire.

NOTE ----

The opinions expressed herein are those of qualified experts within Union Carbide. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the conditions of the use of the product are not under the control of Union Carbide, it is the user's obligation to determine conditions of safe use of the product. **REVISED SECTIONS:** 

> Section V - Health Hazard Data **Additional Toxicity Information** Section IX- Special Precautions

Precautions To Be taken In Handling And Storage:

Section X - Regulatory Information

Other Regulatory Information

PRODUCT: 43062 F NUMBER: CO110G

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MUSACTURERTO NAME:

| NAZDAR  | COMPAN |        |    |
|---------|--------|--------|----|
| 1087 M  | MORTH  | BRANCH | ST |
| CHICAGO | 3      |        |    |

n. 68882...- ...

MIT 00 1003 EMERGENCY TELEPHONE NO. 800-424-0251 INFORMATION TELEPHONE NO. 312-943-8536

| CHICAGO                                                                      | J.L.              | 60882                              | ••••••  |                           |                                          | 1,4                                             |
|------------------------------------------------------------------------------|-------------------|------------------------------------|---------|---------------------------|------------------------------------------|-------------------------------------------------|
| (                                                                            | SECTION           | 1                                  |         | T INFORMATION             |                                          | ·                                               |
| TRADE NAME: BE S PRODUCT CLASS: S PRODUCT GROUP: B                           | SCREEN INK        |                                    | INK TMC | # 1080795                 | CD:BE - H M I S HEALTH FLAMMABI REACTIVI | PB<br>C O D Z S -<br>- 2*<br>LITY - 2<br>TY - 0 |
| PRODUCT<br>BE102<br>BE124<br>BE135                                           | with Zera St. UCC | VOC<br>1b/gal<br>4.6<br>4.6<br>4.5 | % V00   |                           | wt/gal VCC                               | VOC % V(<br>1b/gal VO)<br>4.7 4(<br>4.5 5       |
|                                                                              | SECTION           | 2                                  | HAZARD  | OUS INGREDIENTS           | 3                                        | **************************************          |
| CHEMICAL HAME;<br>COMMON HAME;<br>CAS NUMBER                                 |                   |                                    | ΒY      | OCCUPATIONAL E            | EXPOSURE LIMITS<br>PEL                   | VAPUR<br>PRESSURI<br>IN ombig                   |
| RESIN MIXTURES;<br>CAS #'s: NOT EST                                          |                   |                                    | 25-35   | NOT<br>ESTABLISHED        | NOT<br>ESTABLISHED                       | < 1 % 20                                        |
| DIPROPYLENE GLYCOL                                                           |                   |                                    |         |                           | 1 <b>0</b> 025718                        |                                                 |
| ALIPHATIC GLYCOL<br>CAS #: 34590-94-<br>*(EXPOSURE LIMIT                     | -8                |                                    |         | *STE                      | EL: 150 PFM                              |                                                 |
| DIACETORE ALCOHO<br>DIACETORE ALCOHO<br>CAS #: 123-42-2                      | Lg<br>Lg          |                                    | 10-15   | mª <sup>4</sup> oe        | SOPPE                                    | 1.0 6 20                                        |
| ( DMIUM CONFOU                                                               | INDS#             |                                    | 0~25    | .050MG/M3                 | "200MG/M3                                | NZA                                             |
| Lms %: 7440-43-9<br>(CAS#: & EXPOSUR<br>FOR CADMIUM DUST                     | KÉ LIMITS ARE     |                                    |         | CEILING VALUE             | = 0.6 MG/M3                              |                                                 |
| % BARIUM COMPOUN<br>CAS #: NOT AVAIL                                         | IDS :<br>LABLE    |                                    | 0-15    | (4                        | 15MG/M3<br>AS DJST)                      | NZA                                             |
| * LEAD COMPOUNDS<br>CAS #: 7439-92-1<br>(CAS# & EXPOSURE<br>FOR INORGANIC LE | LIMITS ARE        | JMES)                              | 0-10    | "150MG/M3                 | .150MG/m3                                | N/A                                             |
| * ZINC COMPOUNDS<br>CAS #: 7440-66-6<br>(CAS# & EXPOSURE<br>FOR ZINC DUSTS)  | )                 |                                    | 0- 2    | 10MG/M3                   | 10MG/M3                                  | NZA<br>-                                        |
| * CHROMIUM COMPO<br>CAS #: 7440-47-3<br>(CAS# & EXFOSURE<br>FOR CHROMIUM MET | S.<br>LUMITS ARE  |                                    | O- 2    | _OSOMG/m3                 | _ <b>0</b> 50MGZM3<br>•                  | NZA                                             |
| PIEMENTS;<br>MIXTURE;<br>CAS #'s: NOT EST                                    | 'Ata Tollet       |                                    | <) G    | 10M6/M3                   | 15MG/M3<br>Rs DUST)                      | N/6                                             |
|                                                                              |                   |                                    | < 8     | NOT                       | 100PPNS                                  | <3 0 200                                        |
| PETROLEUM DISTIL<br>AROMATIC HYDROCA<br>CAS <b>#: 64742-94</b> -             | WBOM!             |                                    | < 5     | ESTABLISHED               | TOOP TENDATION)                          |                                                 |
| * N-BUTYL ALCOHO                                                             | JI 3              |                                    | < 5     | 5 <b>0</b> FF/19 <b>*</b> | 50PP/9%                                  | 5.9 9 20                                        |
| M-DUTANOL:<br>CAR #: 71-34-3                                                 |                   |                                    |         | *(CEILING                 | VALUE: SKIE!                             |                                                 |
| LAMOL;<br>ETHYL ALCOHOL;<br>CAS #: 64-17-5                                   |                   |                                    | < 2     | 999PFM                    | <b>999</b> ሞሞክ                           | 47 Q 20t                                        |

\* CUBJECT TO REPORTING REQUIREMENT OF SECTION 313 OF TITLE III OF SARA (40 CFR PART 372)

SECTION 3 -- PHYSICAL DATA

BULLING RANGE: 174-410 DEG. F

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER

SEE SECTION 1 FOR VOC DATA. SEE SECTION 1 FOR WEIGHT PER GAL. DATA

SECTION 4 -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:

QSHA CLASSIFICATION: Class II Combustible Liquid; DOT CLASSIFICATION: Combustible Liquid

OTHER COMMENTS:

NFPA RATING: H-2 F-2 R-0

FLASH FOINT: 125F - 135F (SETA FLASH)

LOWER EXPLOSIVE LEVEL: 0.8 % Vol. in Air

EXTINGUISHING MEDIA:

Foam- CO2- Dry Chemical- Water Spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES:
Water may be ineffective but may be used to cool containers. The use of self-contained breathing apparatus is recommended for fire fighters.

### SECTION 5 -- HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
Eye contact with the liquid, its vapors or mists may cause burning, tearing, redness and eye damage. Repeated and prolonged skin contact may cause slight irritation or mild dermatitis characterized by dryness, chapping and redness. This material may be absorbed through the skin. Overexposure by inhalation may cause respiratory tract irritation or nervous system disorders such as headaches, dizziness, weakness and fatigue. Ingestion may cause gastrointestinal tract irritation and signs of nervous system depression. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Repeated and prolonged overexposure to lead by ingestion may cause a metallic taste in the mouth, nausea, digestive disorders, abdominal cramps & insommia as well as blood, nervous, urinary and reproductive disorders and birth defects. "Inorganic Lead and Lead Compounds" is classified as a Group 2B carcinogen by IARC. "Chromium and certain chromium compounds" is included in the NTP and IARC. "Chromium and certain chromium compounds" is included in the NTP and IARC lists of carcinogens. Cadmium and its compounds are listed as suspect carcinogens by NTP and IARC. There is no conclusive evidence that cadmium pigments are occupational carcinogens. N-Butanol has apparently been found to cause anemia, liver abnormalities, kidney, eye, lung, spleen, brain & nervous system damage in lab animals. Dipropylene Glycol Methyl Ether has apparently been found to cause liver abnormalities & kidney and Inver injury and blood disorders in lab animals. CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcemnet Act of 1986: This product contains a chemical(s) known to the State of California as a carcinogen and/or reproductive toxicant.

DICAL CONDITIONS PRONE TO AGGRAVATE BY EXPOSURE:
Fersons with pre-existing skin or lung disorders may be more susceptible to the effects of this material. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health effects.

FIRM O UP &

RIMARY ROUTE(S) OF ENTRY:

Dermal (Contact/Absorption) - Inhalation - Ingestion

EMERGENCY AND FIRST AID PROCEDURES:
 SKIN CONTACT: Wash with soap and water, contact physician if irritation persists EYE CONTACT: Flush well with running water for a minimum of 15 minutes, contact physician if irritation persists. INHALATION: Remove to fresh air, restore breathing, contact physician. INGESTION: Contact physician or Poison Control Center immediately.

OTHER COMMENTS:

البلاد وللتوادم ( الماصدولونيو ) و **م**وري و **رمو** و و 🔞

The potential health effects of this product are based on the hazards of

OTHER COMMENTS:

its components. TSCA Inventory: All ingredients listed.

### SECTION 6 -- REACITIVITY DATA

STABILITY:

Stable.

CONDITIONS TO AVOID:

Heat, sparks and open flame.

INCOMPATIBILITY (WITH MATERIALS):

Strong oxidizing agents, alkalis, and reactive chemicals.

**MAZARDOUS DECOMPOSITION PRODUCTS:** 

Carbon Monoxide, Carbon Dioxide and other noxious gases.

HAZARDOUS FOLYMERIZATION:

Will not occur.

### SECTION 7 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Remove all sources of ignition. Ventilate area. Avoid breathing vapors.
Contain release and remove with inert absorbent. Avoid contact. Use non-sparking tools to place material in appropriate container for disposal.

WASTE DISPOSAL METHOD:
Dispose of in accordance with applicable local, county, state, and federal regulations.

### SECTION 8 -- SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If vapor concentration exceeds the TLV listed in Section II, use NIOSH approved respirator with organic chemical cartridge. Contact a reputable safety supply company for the appropriate respirator.

**VENTILATION:** 

Use applicable engineering controls, work practices, and personal protective equipment to keep the vapor concentration below the TLV listed in Section II.

PROTECTIVE GLOVES:

Use neoprene, nitrile or other gloves resistant to solvents listed in Section II. Contact a reputable safety supply company for appropriate gloves.

EYE PROTECTION:

Use splash-proof goggles or safety glasses. Contact a reputable safety supply company for appropriate eye protection.

OTHER PROTECTION:

Solvent resistant aprons and availability of an eye wash are recommended. Smoke in designated areas only.

-MGIENIC PRACTICES:
Wash with soap and water before eating, smoking or using toilet facilities.
Remove contaminated clothing to prevent prolonged skin contact.

### SECTION 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use.

OTHER PRECAUTIONS:

( )

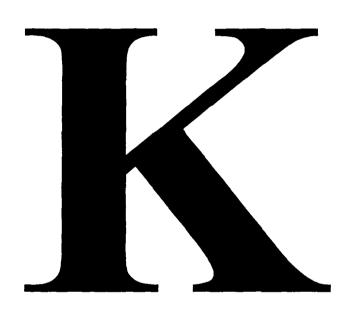
Avoid prolonged or repeated overexposure to this product. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable regulations.

### SECTION 10 -- DISCLOSURE

DISCLOSURE INFORMATION:

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind express or implied is made with respect to the information contained





MOR 000913

#### SAFETY DATA SHEET <u>MATERIAL</u> Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Date of Prep:

12/3/96

### SECTION 1

SUNNYSIDE CORPORATION 225 CARPENTER AVENUE WHEELING, ILLINOIS 60090 **EMERGENCY TELEPHONE** 

(847) 541-5700 (800) 424-9300 SUNNYSIDE CORPORATION

**CHEM TREC** 

Rec \$ 8),7/25

FOR INFORMATION: (847) 541-5700

**Product Class:** Trade Name:

Petroleum Hydrocarbon

KEROSENE

Manufacturer's Code: **NPCA HMIS:** 

801

Health: 1 Fire: 2

Reactivity: 0

Product Appearance and Odor: Clear, water-white liquid; mild characteristic odor.

### SECTION 2 -- HAZARDOUS INGREDIENTS

### OCCUPATIONAL EXPOSURE LIMITS

**INGREDIENT** 

CAS #

PERCENT

ACGIH TLV (TWA)

(TWA)

**VAPOR PRESSURE** 

Petroleum Distillate

8008-20-6

Not Est.

**400 PPM** 

91-20-3

(For Petroleum Distillates **15 PPM** 

Naphtha) 15 PPM 0.5 MM Hg @ 100° F

Naphthalene

**10 PPM** 

**10 PPM** 

Not Known

#### SECTION 3 --EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:

Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention.

Skin Contact:

Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned,

Inhalation:

Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing.

Ingestion:

Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into

the lungs. Get medical attention.

### SECTION 4 -- PHYSICAL DATA

The following data represent approximate or typical values. They do not constitute product specifications.

**Boiling Range: Evaporation Rate:**  350-572° (F) Slower than ether

Weight Per Gallon: Solubility in Water: 6.75 lbs. Negligible Vapor Density: % Volatile By Volume: Heavier than air

100%

### SECTION 5 -- FIRE AND EXPLOSION DATA:

Flammability Classification:

Combustible Liquid-Class II

Flash Point:

125° (F) Minimum (Tag. Closed Cup)

**Autoignition Temperature:** 

450°(F)

Lower Explosive Limit:

0.7 Vol. %

Extinguishing Media:

Carbon Dioxide, foam, dry chemical, water spray. Do not use direct water stream; it will spread

Unusual Fire and Explosion Hazards:

Do not store or mix with strong oxidents.

Special Fire Fighting Procedures:

Use air-supplied rescue equipment for enclosed areas. Cool exposed containers with water.

### SECTION 6 -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE EFFECTS OF OVEREXPOSURE See Section 2.

Acute

Eye Contact:

Contact may cause mild eye irritation, including stinging, watering and redness.

Skin Contact: .

Skin irritant. Contact may cause redness and burning. Prolonged or repeated contact may cause drying and cracking of the skin and severe skin damage. No harmful effects to humans from skin absorption have been reported. Prolonged and repeated dermal exposures of rabbits to kerosene produced multi-focal necrosis of

the liver.

Inhalation:

Vapors may cause irritation to nose, throat and respiratory tract. Petroleum hydrocarbons of similar composition have been shown to cause kidney damage and tumors in male rats following prolonged inhalation

exposures. This effect appears to be unique to the male rat.

Ingestion:

Ingestion may result in vomiting, aspiration (breathing) of vomitus into the lungs must be avoided as even

small quantities may result in aspiration pneumonitis.

Chronic:

Repeated skin contact may aggravate an existing dermatitis (skin condition).

Target Organs:

Potential hazard to kidney and liver.

Carcinogenicity:

Application to mouse skin twice a week for 12 months, resulted in an increased incidence of skin tumors. Kerosene has not been identified as a carcinogen by NTP, IARC or OSHA. Female mice exposed via inhalation to Naphthalene developed alveolar adenomas. This effect was not seen in male mice. Naphthalene has not been identified as a carcinogen by NTP, IARC or OSHA.

Medical Conditions Aggravated by Exposure: Conditions aggravated by exposure may include skin disorders, respiratory (asthma-like) disorders at liver disorders.

# SECTION 7 -- REACTIVITY DATA

Stability:

Stable

Conditions to Avoid:

Heat, sparks and flame.

Incompatibility (Materials to Avoid):

Strong oxidizing agents like liquid chlorine, concentrated oxygen, strong acids, selected amines and

**Hazardous Decomposition Products:** 

Thermal decomposition may yield carbon dioxide and carbon monoxide.

Hazardous Polymerization:

Will not occur.

# SECTION 8 -- SPILL OR LEAK PROCEDURES

Steps to be taken in case material is spilled or released: Remove ignition sources, evacuate area, avoid breathing vapor or contact with liquid. Recover free liquid or stop leak if possible. Dike large spills and use absorbent material for small spills. Keep spilled material out of sewers, ditches

Waste disposal method: Incinerate under safe conditions; dispose of in accordance with local, state and federal regulations.

# SECTION 9 - SAFE HANDLING AND USE INFORMATION

Respiratory Protection:

Appropriate vapor canister, self-contained breathing apparatus or supplied-air hose mask, if needed.

Ventilation:

Sufficient, in volume and pattern, to keep workroom concentration below current applicable OSHA safety and health requirements. See Section 2. Use explosion-proof equipment. No smoking.

Protective Gloves: Eye Protection:

Rubber or neoprene. Chemical safety goggles.

Other Protective Equipment:

Impervious clothing or boots, if needed.

### SECTION 10 -- SPECIAL PRECAUTIONS

Dept. of Labor Storage Category:

Combustible Liquid - Class II

Hygienic Practices:

Keep away from heat, sparks and open flame. Keep containers closed when not in use. Avoid eye contact. Avoid prolonged or repeated contact with skin. Wash skin with soap and water after

contac

Additional Precautions:

Ground containers when transferring liquid to prevent static accumulation and discharge. Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lighting, and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).

**Empty Container Warning:** 

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to supplier or disposed of in an environmentally safe manner and in accordance with governmental regulations.

### SECTION 11 -- ADDITIONAL INFORMATION

This product contains the following toxic chemical(s) which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

APPROXIMATE

**TOXIC CHEMICAL** 

CAS #

% BY WEIGHT

Naphthalene

91-20-3

< 1.0%

SARA Title III Hazard Categories:

Immediate (Acute) Health, Delayed (Chronic) Health

Common Names:

Solvent Naphtha (Petroleum), Aliphatic Hydrocarbon, Petroleum Distillate

California Proposition 65:

This product contains trace amounts of Benzene, a chemical known to the State of California to cause cancer, and Toluene, a chemical known to the State of California to cause birth defects or other reproductive harm.

### TRANSPORTATION

U.S. D.O.T. Proper Shipping Name:

Kerosene

U.S. D.O.T. Hazard Class & Packing Group:

Combustible Liquid, III

U.S. D.O.T. I.D. Number:

UN 1223

Refer to 49 CFR for possible exceptions and exemptions.

# CHRISTOPHER

Page 1 of 3

Christopher Associates Inc./Koki Co. Ltd. Manufacturer:

Phone Numbers:

2601 South Oak Street Santa Ana, CA 92707

(714)979-7500Chemtrec (800) 424-9300

SECTION I - IDENTITY INFORMATION

Product Name:

Koki JS-3000S Flux

CAS#: 67630

Chemical Name:

Flux Chemical Family:

Solvent Mixture

Formula:

C<sub>3</sub>H<sub>7</sub>OH

SECTION II - HAZARDOUS INGREDIENTS

Principal Components:

TLV Units CAS#

(Chemical and common names)

Isopropyl Alcohol

96

400ppm

82.4°C

96

2.07

1.0

0.792 (20°C)

32mm (20°C)

67630

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS AND FIRE/EXPLOSION DATA

Boiling Point (°C): Specific Gravity (water = 1):

Vapor Pressure (mm Hg): % Volatile By Volume (%):

Vapor Density (air = 1): Evaporation Rate (BuAc = 1):

Solubility in Water:

Solubility in Organic Solvent:

Partially Soluble

Soluble (Acetone, Ethyl-Acetate,

Methyl-Ethyl Ketone)

Reactivity: None

Appearance & Odor: Colorless Liquid, Mild Alcohol

> Odor 12.2°C

Flashpoint (°C):

Flammable Limits

In Air % by Volume:

Lower Upper 2.02 7.09

Extinguishing Media:

Auto Ignition Temperature:

Special Firefighting Procedures:

Unusual Fire/Explosion Hazards:

Carbon Dioxide, Foam, Cut Off Air

455°C

Wear Protective Clothing

None Known

Product: Koki JS-3000S Flux Page 2 of 3 Material Safety Data Sheet Christopher Associates Inc./Koki Co. Ltd. Phone Numbers: Manufacturer: 2601 South Oak Street (714)979-7500Santa Ana, CA 92707 Chemtrec (800) 424-9300 SECTION IV - PHYSICAL HAZARDS ( ) Unstable Stability: (x) Stable Sources of Ignition Conditions to Avoid: Alkaline Substances Incompatible Materials to Avoid: Alkaline Substances Hazardous Decomposition Products: Hazardous Polymerization: ( ) May Occur (x) Will Not Occur SECTION V - HEALTH HAZARDS Toxicity: Isopropyl Alcohol Stomach Discomfort, Vomiting, Nausea, Irritation to 1. Acute Overexposure: Mouth & Throat, Scarcery Irritation, Respiratory Irritation and Anesthesia. 2. Chronic Overexposure: Respiratory Ailments, Liver and Kidney Damage, Corneal Damage, Pulmonary Edema Medical Conditions Generally Aggravated By Overexposure: National Toxicity Program (NTP): ( ) Yes (x) No IARC Monographs ( ) Yes (x) No oN (x) OSHA ( ) Yes OSHA Permissible Exposure Limit (PEL): Not Established 5.84 g/kg (Rat) Oral LD50 ACGIH Threshold Limit Value (TLV): 16 ml/kg (Rabbit) Dermal LD50 Other Exposure Limit Used: Emergency and First Aid Procedures: Inhalation: Remove to fresh air. 1.

- 2. **Eyes:** Flush with water for 15 minutes, lifting eyelids occasionally. Seek medical attention if irritation persists.
- 3. <u>Skin:</u> Wash with solvent then wash with soap and water. Removed exposed clothing and wash thoroughly before reuse.
- 4. Ingestion: Give victim large amounts of water. Seek medical attention.

Page 3 of 3

Product: Koki JS-3000S Flux

Material Safety Data Sheet

Manufacturer: Christopher Associates Inc./Koki Co. Ltd.

Phone Numbers:

2601 South Oak Street Santa Ana, CA 92707 (714)979-7500 (800)424-9300

SECTION VI - SPECIAL PROTECTION INFORMATION

Respiratory Protection:

Use NIOSH approved respirator.

Chemtrec

Use only in a well ventilated area.

Ventilation: Local Exhaust:

Recommended Recommended

Mechanical: Re Special: N/

N/A N/A

Other: Protective Gloves:

Chemical Resistant Gloves

Eye Protection:

Chemical safety goggles or face

shield recommended

Other Protective Clothing or

Equipment:

Safety Shower, Eye Bath, Apron

SECTION VII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

<u>Precautions to be Taken in Handling/Storage:</u> Keep container closed when not in use. Do not store near sources of ignition. Store below 20°C.

Other Precautions: Avoid contact with skin and eyes

<u>Steps to be Taken in Case Material is Released or Spilled:</u> Contain spill with absorbent material. Dike large spills using absorbent material. Dispose of in a DOT approved container. Increase ventilation.

<u>Waste Disposal Methods:</u> Dispose of in accordance with all local, state and federal regulations and ordinances.

# SECTION VII - SHIPPING INFORMATION

Proper Shipping Name: Hazard Classification:

Isopropyl Alcohol Mixture

Flammable Liquid

UN Number:

UN 1219

Prepared By:

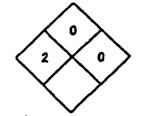
(J. Winters

Rev.3.1.94

THE INFORMATION PUBLISHED IN THE MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND PUBLISHED DATA. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS.

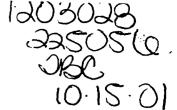
# MATERIAL SAFETY DATA SHEET

**ALPHA METALS** 600 Route 440 Jersey City, NJ 07304 Telephone: 201-434-6778



**NUMBER: 1472** 

**REVISION: 04/16/98** 



# SECTION I - GENERAL INFORMATION

PRODUCT NAME

(NUMBER)

CHEMICAL FAMILY

Mixture.

D.O.T HAZARD CLASS

Solid, corrosive, Inorganic, N.O.S.

# **SECTION II - HAZARDOUS INGREDIENTS**

| INGREDIENTS                                            | CAS<br>NUMBER            | WEIGHT<br>PERCENT | OSHA PEL                | ACGIH TLV               |
|--------------------------------------------------------|--------------------------|-------------------|-------------------------|-------------------------|
| Potassium Tetrafluoroborate Ammonium Tetrafluoroborate | 14075-53-7<br>13825-83-0 | 15-30<br>70-85    | 2.5 mg/cum<br>35 mg/cum | 2,5 mg/cum<br>17 mg/cum |
|                                                        | <b>`</b> .               |                   |                         |                         |
|                                                        |                          |                   |                         |                         |
|                                                        |                          |                   |                         | •                       |

as Fluorides (F) as Ammonia (NH3)

# SECTION III - PHYSICAL DATA

(PUBLISHED or ESTIMATED VALUES)

BOILING POINT Deg. F.

SPECIFIC GRAVITY (H\_O=1)

NE

(760 mm Ha)

VAPOR PRESSURE NA

% VOLATILE by WEIGHT

NA

(mm Hg AT 20 Deg. C.) **VAPOR DENSITY (AIR=1)** 

**EVAPORATION RATE** 

NA

SOLUBILITY IN WATER

NA Complete

pH (10% aqueous soln.)

3.5

APPEARANCE AND ODOR

White, crystalline solid, irritating odor.

# SECTION IV - FIRE AND EXPLOSION HAZARD DATA

breathing apparatus.

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air)

LELINA UELINA

FLASH POINT Dea. F.

NA

EXTINGUISHING MEDIA Not combustible. Select extinguishing agent appropriate to other materials involved.

SPECIAL FIRE

Wear full protective clothing and self-contained

**FIGHTING PROCEDURES** 

**UNUSUAL FIRE AND** 

Dangerous when exposed to heat or flame. Decomposition

EXPLOSION HAZARD

products include toxic and corrosive fumes.

. Sverexposure)

and possibly lung damage, wheezing, with breathing, headache, nausea, vomiting.

INGESTION: Swallowing may cause corrosion of mouth, throat and digestive

tract. Systemic effects similar to those resulting from in-

halation.

SKIN: Will cause chemical burns. Absorption may be a significant

route for exposure. Contact may have systemic effects similar

to those resulting from inhalation.

EYES: Dust will cause severe conjunctival irritation and corneal

damage.

CARCINOGENICITY: None known.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: None known.

# **SECTION V(b) - HEALTH HAZARD DATA**

(Emergency & First Aid Procedures)

INHALATION Remove from exposure. Keep warm and at rest. If breathing stops

or shows signs of failing, give artificial respiration. If loss of consciousness occurs, place in recovery position. Obtain

medical attention urgently.

INGESTION Wash out mouth with water. Contact Poison Control Center Immed-

lately. IF CONSCIOUS, give 1-3 glasses of water. DO NOT induce

vomiting. If breathing stops or shows signs of failing, apply

artificial respiration. Obtain medical attention urgently.

SKIN CONTACT immediately flood the skin with large quantities of water,

preferably under a shower. Remove contaminated clothing as

washing proceeds. Obtain medical attention urgently.

EYE CONTACT Immediately flood the eye(s) with plenty of water for at least

15 minutes, holding the eye lids open. Obtain medical attention

urgently.

### SECTION VI - REACTIVITY DATA

STABILITY
STABLE: X UNSTABLE:

CONDITIONS Heat or flame.

TO AVOID

INCOMPATIBILITY

(Materials to Avoid)

HAZARDOUS

0500110000

DECOMPOSITION PRODUCTS

Strong acids.

Combustion will generate toxic fluorine compounds.

HAZARDOUS POLYMERIZATION

WILL OCCUR: WILL NOT OCCUR:X

CONDITIONS TO

**AVOID** 

None

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wear respiratory protection and appropriate protective clothing. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal. Avoid creating dust. Environmental Precautions: See Section X.

WASTE DISPOSAL

Must be in accordance with Federal, State, and Local Laws and Regulation

# SECTION VIII - SPECIAL PROTECTION

RESPIRATORY If threshold limit value is exceeded, use MSHA/NIOSH approved

dust respirator for corrosive fumes.

EYEWEAR Chemical goggles or face shield in compliance with OSHA

regulations are advised. DO NOT wear contact lenses.

Provide eye bath near work site.

CLOTHING/GLOVES Wear butyl, natural rubber or neoprene gloves and rubber

apron.

Provide safety shower near work site.

VENTILATION Provide process or personnel enclosure, mechanical ventilation

(dilution and local exhaust), and control of process conditions

to maintain exposure levels below TLVs.

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool dry area, under cover. Store in original containers. Avoid creating a dust. Avoid inhaling dust. Avoid contact with eyes, skin and clothing. Keep containers tightly closed when not in use.

### **OTHER PRECAUTIONS:**

CONTAINERS: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

surveillance for 48 hours.

SPILL OR LEAK PROCEDURES: (continued)

Try to prevent the material from entering drains or water courses.

Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

### TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY: The product contains components that are harmful by the following route of exposure; ingestion, inhalation and skin contact.

IRRITANCY-EYES: Data for a closely related material suggests that the product will produce severe conjunctival initiation and comeal damage.

IRRITANCY-SKIN: Data for a closely related material suggests that this product will produce burns.

SKIN SENSITIZATION: None known. ECOLOGICAL INFORMATION:

MOBILITY: The product will dissolve rapidly in water.

PERSISTANCE/DEGRADABILITY: The product is readily biodegradable.

BIO-ACCUMULATION: Product is not expected to bioaccumulate.

ECOTOXICITY: The product is rated as slightly toxic to aquatic species.

Toxic Substance Control Act (TSCA) Status:

All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III (Section 313):
Components present in this product at a level which could require reporting under the statute are:

None

California State Proposition 65:
This product does not contain chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm.

# **EMERGENCY TELEPHONE NUMBER**

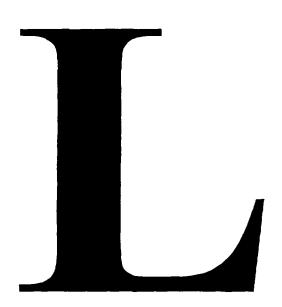
CHEMTREC 1-800-424-9300 DAY or NIGHT

The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly discialmed for loss or injury arising out of use of this information of the use of any materials designated.



# M.S.D.S. BINDER





MOR 000925

MSDS: 75597

ITEM: 2W757

ORDER: 0091426971

DROP LOCATION: P3-221

### MATERIAL SAFETY DATA SHEET (MSDS)

| ************************          | attached or kept with the respective product with which it is associated associated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as a sociated as | te |
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| W757                              | LOL# 224037                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |
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| AMUFACTURER'S MAME                | ENERGENCY TELEPHONE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |
| DISTRIBUTED BY                    | (216) 566-2917                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |
| W. W. GRAINGER                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| CHICAGO, IL 60069                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| ATS OF PREPARATION                | INFORMATION TELEPHONE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |
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SECTION I - PRODUCT IDENTIFICATION

REALTE: 2 B2W757 FLAMMABILITY: 4

REACTIVITY: 0

(800) 240-0248

PRODUCT NAME 2W757-B T.F.E. DRY LUBE

PRODUCT CLASS AEROSOL LUBRICANT

SECTION II - BALARDOUS INGREDIENTS

| INGREDIENT |         | ACGIE | OSKA |       |     |
|------------|---------|-------|------|-------|-----|
| CAS 10.    | A BY WY | TLV   | PEL  | THITS | ٧.  |
|            | •       |       |      |       |     |
| PROPARE    | 13      |       | 1000 | PPE   | 760 |
| 74-38-6    |         |       |      |       |     |
|            |         |       |      |       |     |
| BUTANE     | 13      | 800   | 800  | PPM   | 760 |
| 106-97-0   |         |       |      |       |     |
|            |         |       |      |       |     |
| REPTANE    | 57      | 400   | 400  | PPM   | 50  |
| 142-82-5   | STEL    | 500   | 500  | PPM   |     |
|            |         |       |      |       |     |
| 2-PROPANOL | 14      | 400   | 400  | 7791  | 33  |
| 67-63-0    | STEL    | 500   | 500  | PPH   |     |
|            |         |       |      |       |     |

.....

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PRODUCT WEIGHT: 5.53 LB./GAL.

EVAPORATION RATE: PASTER THAN ETHER

SPECIFIC GRAVITY: 0.67

VAPOR DEMSITY: MEAVIER TEAM AIR

HOILING POINT: LT 0 -212 F.

MELTING POINT: N.A.

VOLATILE VOLUME: 99%

SOLUBILITY IN WATER: N.A.

VOLATILE WEIGHT: 98.05% (LESS FEDERALLY EXEMPT SOLVENTS)

mas: 2 4 0

SECTION IV - FIRE AND EXPLOSION RAZARD DATA

PLASH POINT

--

\_\_\_\_\_

UEL

PROPELLANT LT 8 F.

1.1

12.7

EXTINGUISHING MEDIA:

CARBON DIOXIDE, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION BAZARDS: ISOLATE FROM REAT, ELECTRICAL EQUIPMENT
SPARES, AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTRE
REAT. APPLICATION TO BOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING
EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A REA
RAZARD. SYMPTOMS MAY NOT BE INMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED. WATER SPRAY MAY BE IMEPPECTIV IF MATER IS USED, FOG MOZZLES ARE PREFERABLE. MATER MAY BE USED TO COOL CLO CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOS NAMES EXPOSED TO EXTREME HEAT.

SECTION V - MEALTH MAZARD DATA

ROUTES OF EXPOSURE, EXPOSURE MAY BE BY INHALATION AND/OR SKIN OR EYE CONTAC DEPENDING ON CONDITIONS OF USE. TO MINIMISE EXPOSURE, POLLOW RECOMMENDATION FOR PROPER USE, VENTILATION, AND PERSONAL PROTECTIVE EQUIPMENT.

ACUTE MEALTE MAZARDS:

EFFECTS OF OVEREXPOSURE: IRRITATION OF EYES, SKIH AND RESPIRATORY SYSTEM. M
CAUSE MERVOUS SYSTEM DEPRESSION. EXTREME OVEREXPOSURE MAY RESULT IN
INNOMISCIOUSMESS AND POSSIBLY DEATH.

SIGNS AND STRPTOMS OF OVEREXPOSURE: MEADACHE, DIZZINESS, NAUSEA, AND LOSS O COORDINATION ARE INDICATIONS OF EXCESSIVE EXPOSURE TO VAPORS OR SPRAY HISTS

REDNESS AND ITCHING OR BURNING SEMBATION MAY INDICATE EYE OR EXCESSIVE SKIN EXPOSURE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NOWE GENERALLY RECOGNIZED.

2W757

INERGENCY AND FIRST AID PROCEDURES:

IF IMEALED: IF AFFECTED, REMOVE FROM EXPOSURE, RESTORE BREATEING, KEEP WARM COLET.

IF ON SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND NATHE. REMOVE CONTAMINATED CLOTKING AND LAUNDER BEFORE RE-USE.

IF IN EYES: PLUSH EYES WITH LARGE ANOUNTS OF MATER FOR 15 MINUTES. GET MEDIATERION.

MOR 000927

IF SWALLOWED: NEVER GIVE ANYTHING BY MOUTE TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING, GIVE CONSCIOUS PATIENT SEVERAL GLASSES OF MATER, SEEK MEDI ATTEMTION. CHRONIC REALTH BAZARDS: NO INCREDIENT IN THIS PRODUCT IS AN IARC, MYP OR OSEA LISTED CARCINOGEN. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WIT PERMANENT ARATM AND MERUPHS SYSTEM DANAGE. SECTION VI - REACTIVITY DATA \*----STABILITY, STABLE. COMPITIONS TO AVOID: MONE ENOUGH. INCOMPATIBILITY: NONE ENOWN. MAZARDOUS DECOMPOSITION PRODUCTS: BY FIRE: CARBON DIGITIE. CARBON MONOIDE. MAZARDOUS POLYMERIZATION: WILL NOT OCCUR. SECTION VII - SPILL OR LEAK PROCEDURES ..... STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCE OF IGNITION, VENTILATE AND REMOVE WITE INTERT ABSORBERT. MASTE DISPOSAL METROD: MASTE FROM THIS PRODUCT MAY BE HAZARDOUS AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 361. WASTE MUST BE TESTED FOR IGNITABILITY TO DETERMINE THE APPLICABLE EPA RAZAR MASTE MUMBERS. DO NOT INCINERATE. DEPRESSURIZE CONTAINER, DISPOSE OF IN ACCORDANCE WITH PEDERAL, STATE, AND LOCAL REGULATIONS REGARDING POLLUTION. 28757

SECTION VIII - PROTECTION INFORMATION

PRECAUTIONS TO BE TAREN IN USE: USE ONLY WITE ADEQUATE VENTILATION, AVOID BREATEING VAPOR AND SPRAY MIST. AVOID CONTACT WITE SKIN AND STEEL WASR SAND APTER USING.

VENTILATION: LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE TO MATERIALS IN SECTION II IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS, REFER TO OSEA STANDARDS 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION: IF PERSCHAL EXPOSURE CARNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/ PARTICULATE RESPIRATOR APPROVED BY WIOSE/MSEA FOR PROTECTION AGAINST MATERI

PROTECTIVE GLOVES: MONE REQUIRED FOR MORNAL APPLICATION OF AEROSOL PRODUCTS WHERE MINIMAL SKIN CONTACT IS EXPECTED. FOR LONG OR REPEATED CONTACT, WEAR CHEMICAL RESISTANT GLOVES.

SECTION IX - PRECAUTIONS

·<del>····</del>

DOL STORAGE CATEGORY: 1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING; KEEP ANAT FROM HEAT, SPARK AND OPEN FLAME, VAPORS WILL ACCUMULATE READILY AND MAY IGNITE EXPLOSIVELY.

DURING USE AND UNTIL ALL VAPORS ARE GOME: KEEP AREA VENTILATED - DO NOT SMO EXTINGUISE ALL FLAMES, PILOT LIGHTS, AND HEATERS - TURN OFF STOVES, ELECTRI TOOLS AND APPLIANCES, AND ANY OTHER SOURCES OF IGNITION.

CONSULT MYPA CODE. USE APPROVED BONDING AND GROUNDING PROCEDURES.

CONTENTS UNDER PRESSURE. DO NOT FUNCTURE, INCINERATE, OR EXPOSE TO TEMPERAT
ABOVE 120 F. HEAT FROM SUNLIGHT, RADIATORS, STOVES, BOT MATER, AND OTHER HE
SOURCES COULD CAUSE CONTAINER TO BURST. DO NOT TAKE INTERMALLY, KEEP OUT OF
REACH OF CHILDREN.

OTHER PRECAUTIONS: INTENTIONAL HISUSE BY DELIBERATELY CONCENTRATING AND IMBALING THE CONTENTS CAN BE BARMFUL OR FATAL.

SECTION I - OTHER REGULATORY INPORMATION:

.....

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS NO. CREMICAL/COMPOUND % BY MT % ELEMENT

NO INGREDIENTS IN THIS PRODUCT ARE SUBJECT TO SARA 313 (40 CFR 372.45C) SUPPLIER NOTIFICATION.

2W757

CALIFORNIA PROPOSITION 65:

HARRING; THIS PRODUCT CONTAINS CHEMICALS EMONN TO THE STATE OF CALIFORNIA T
CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE BARM.

TECA CERTIFICATION: ALL CHEMICALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING, ON THE TSCA INVENTORY.

THE ABOVE IMPORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY PORMULATED, AND BASED ON THE IMPORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR OF ADDITIVES TO THIS PRODUCT MAY SUBSTANTIALLY ALTER THE COMPOSITION AND MALAR OF THE PRODUCT. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL. WE MAKE NO MARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH USE OF THIS IMPORMATION.

LIQUID MASK TMC# 1090257

# Techform Laboratories Material Safety Data Sheet

to comply with 29 CFR 1910.1200. OSHA's Hazard Communication Standard

### TC 533

### Section I:

Techform Laboratories 2021 N. Glassell Street

Orange, CA 92665

Emergency Telephone 1-(714)-921-9054 CHEMTREC after hours 1-(800)-424-9300

Revised: 1/4/94

Section II: Hazardous Ingredients/Identity information

Hazardous Component

OSHA PEL

ACGIH

TLY

Other limits

<u>Zo</u>

AMMONIUM HYDROXIDE

1336-21-6

CAS#

50.0

 $18.00 \text{mg/m}^3 \text{ NE}$ 

< 1%

Only those ingredients listed in this section have been determinded to be hazardous as defined in 29CFR 1910.1200. An ingredient marked with an asterisk(\*) is also listed in 29CFR 1910.1200(D) #4 as a known or suspected cancer hazard.

+ Denotes a chemical regulated as toxic by the Environmental Protection Agency (EPA) as outlined in 40CFR Part 372 (Section 313).

# Section III: Physical/Chemical Characteristics

Boiling Point: 212°F

Vapor Pressure (mm Hg): = Water

Vapor Density: = Water

Solubility in water: (10.0 - 99.9%)

Specific Gravity: 1.0

Melting Point: NE Evaporation Rate

(butyl acetate=1): <1.0

Appearance and odor: Milky liquid, slight ammonia odor.

# Section IV: Fire and Explosion Hazard Data

Flash Point: NE

Flammable limits lel NE uel NE

Extinguishing media: Dry chemical, water, CO<sup>2</sup>

Special fire fighting procedures: Use self contained breathing apparatus.

Unusual Fire and Explosion Hazards: NONE

### Section V: Reactivity Data

Stability: STABLE

Conditions to avoid: none

Incompatability (materials to avoid): NE

Hazardous Decomposition or Byproducts: CO, CO2

Hazardous Polymerization: WILL NOT OCCUR Conditions to avoid: none

Product name: TC 533

Revised: 1/4/94

Section VI: Health Hazard Data

Routes of entry: Inhalation Yes Skin No Ingestion No

Health Hazards (acute and chronic)

Contact may cause irritation. Prolonged or repeated contact may cause allergic dermatitis. Carcinogenicity: not determined NTP? no IARC Monographs? no OSHA Regulated? no

Signs and symptoms of exposure: Inhalation-Headache, dizziness, difficulty breathing. Ingestion-nausea, vomiting. Skin-redness, burning, rash, dryness.

Eye-redness, burning, tearing, blurred vision.

Medical Conditions Aggravated by exposure: Skin allergies and respiratory conditions.

### **EMERGENCY FIRST AID PROCEDURES:**

Skin: Flush with water immediately - Seek medical attention if irritation

persists

Eyes: Flush with water for 15 minutes - Seek medical attention if irritation

persists

Ingestion: Drink large amounts of water - seek medical attention.

Never give liquids to an unconscious person.

Inhalation: Remove to fresh air. Support respiration.

If required - Seek medical attention.

## Section VII: Precautions for Safe Handling and Use

Steps to be taken if material is released or spilled: Flush into a chemical sewer or soak up with a suitable absorbant.

Waste Disposal Method: dispose of in accordance with all local state and federal regulations. Other Precautions: Avoid contact as much as possible.

### Section VIII: Control Measures

Respiratory Protection (type): Organic vapor mask for fumes over TLV.

Ventilation Local Exhaust preferred

Special NE Other NE

Mechanical OK

Protective Gloves: plastic or rubber Eye Protection: Goggles or face shield

Other Protective Clothing or Equipment: as required to avoid contact.

Work/Hygienic Practices: Wash after use. Follow good Industrial hygienic practices.

### Section IX: Additional Information

DOT Hazard Classification: None

NFPA Hazard Class:(NFPA 325M, 8th Edition)(Health, Flammability, Reactivity):1-0-0

Other: None

The information and recommendations contained within this publication have been compiled from sources believed to reliable and to represent the best information available to TECHFORM LABORATORIES at the time of latte. No warranty, guarantee or representation is made by TECHFORM LABORATORIES nor does TECHFORM LABORATORIES assume any responsibility in connection therewithin; nor can it be assumed that all acceptable safety measures or toher safety measures may not be required under particular or ecceptional conditions or circumstances.

NE = not established

1000 000 001

MOR 000931

הדיסד הככד כד מהן

This MSDS should be attached or kept with the respective product with which it is associated.

Rec. 1/12/01

MATERIAL SAFETY DATA SHRET - A0671

Associated Grainger Items

5**2229** 

LOCTITE CORPORATION

01/

ROCKY HILL, COMMECTICUT 06067 EXERGENCY PROME: (860) 571-5100

OF 65

COLOR GUARD (R) TOUGH RUBBER COATING - BLUE

1. CHENCICAL PRODUCT AND COMPANY IDENTIFICATION

ITEM NO.:

81814

PRODUCT TYPE:

SOLVENT BASED COATING MATERIAL.

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENTS CAS NO. HTDROTREATED HEAVY WAPHTHA 64742-48-9 30-35 THERMOPLASTIC RUBBER 66070-58-4 25-30 H-HEZAME\* 110-54-3 15-20 108-88-3 TOLUENS\* 15-20 METHIL BIHIL RETONE. 78-93-3

\* THIS COMPONENT IS LISTED AS A SARA SECTION 313 TOXIC CHEMICAL.

INGREDIENTS WEICH HAVE EXPOSURE LIMITS

EXPOSURE LIMITS (TWA) ACGIR AHRO INGREDIENTS (TLV)

MYDROTREATED BEAVY MAPHTHA 5MG/M3 TWA MIST 5MG/M3 TWA MIST 400 PPM

50 PPH TWA 50 PPM THA

1.80MG/M3

OTHER

TOLURNE 50 PPM SKIN HOME 188 MG/M3 SKIN 375MG/M3

200 PPM TWA 200 PPM TWA HOME

> 590 MG/M3 590 MG/M3

RIPOSURE LIMITS (STEL) ACGIH INCREDIENTS (TLV) (PEL)

SYDROTREATED MEAVY MAPHTELA 10 MG/M3 MIST HOME

TOLUMN HOME 150 PPM 560MQ/N3

885 MQ/M3

METETL RYSTL KETONE 300 PPM 300 PPK

885 NG/N3

3. HATARDS IDENTIFICATION

TOXICITY. BRAIN AND NERVOUS STETEN DAMAGE. DRYING OR

CRACKING SKIN.

PRIMARY ROUTES OF EMPRY: IMBALATION, INGESTION, EYE AND SKIN CONTACT.

SIGNS AND SYMPTOMS

OF EXPOSURE:

HEADACHE, DIEZINESS, FATIQUE, DROWSINGSS,

IRREGULAR

MEASTREAT, SEIN AND BYE IRRITATION.

LOCTITE CORPORATION 01/

30/00

ROCKY HILL, COMMECTICUT 06067 EXCERGENCY PROME: (860) 571-5100

OF 05

CONTINUED)

ITEM NO.: 81814

3. HAZARDS IDENTIFICATION

EXISTING COMDITIONS

MOR 000932

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AGGRAVATED BY EXPOSURE: TOLUENE: EYE, LIVER, SKIN, RESPIRATORY, AND
CENTRAL
```

MERVOUS STATEM DISEASES, AND ALCOHOLISM.

MEART, RIDNEY, AND LUNG DISORDERS.

LITERATURE REFERENCED CARCINOGEN

TARGET ORGAN AND OTHER MEALTH EFFECTS HTP TARC INGREDIENTS

OSEA

HIDROTERATED MEANY MAPRIMA MIO NO NO NO

NO DATA MO MO MO TERRESPLASTIC RUBBER

DEV IRR LUN MER REP NO NO NO

DEE CAR CHS DEV BAR IRR TOLUENE

MRTHYL STRYL KETOWS CHS IRR ------

ABBREVIATIONS

REP REPRODUCTIVE

M/A NOT APPLICABLE BEH BEHAVIORAL

CAR CARDIAC CMS CENTRAL MERVOUS SYSTEM

DEV DEVELOPMENTAL EAR EAR

LUM LUMG IRR IRRITANT

MER MERVOUS SYSTEM NTO NO TARGET ORGANS

OTHER POSSIBLE TARGET ORGANS: CARDIOVASCULAR SYSTEM, KIDNEY, SKIN,

LIVER, LUNG, RESPIRATORY SYSTEM, AND CENTRAL AND PERIPHERAL MERVOUS

4. FIRST AID MEASURES

DO NOT INDUCE VONITING. KEEP INDIVIDUAL CALM. INCESTION:

OBTAIN MEDICAL ATTENTION.

IMMALATION: REMOVE TO PRESE AIR. IF SYMPTOMS PERSIST, OBTAIN

MEDICAL ATTENTION. ADMINISTER OXYGEN OR

ARTIFICIAL

RESPIRATION IF MECESSARY.

SKIN CONTACT: WASH WITH SOAP AND WATER.

EXE CONTACT: FLUSH AT LEAST 15 MIMUTES WITH WATER. OBTAIN

MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

LESS THAN 2F METHOD: TAG CLOSED CUP PLASE POINT:

RECOMMENDED

EXTINGUISHING AGENTS: CARBON DIOXIDE, FOAM, DRY CHEMICAL.

SELF CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN

PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE SHOULD BE USED WHEN

LOCTITE CORPORATION

30/08

ROCKY MILL, COMMECTICUT 06067

01/

EMERGRACY PROME: (860) 571-5100

ITEM NO. 1 81814

5. FIRE FIGHTING MEASURES

CONTINUED)

COMPRONTED WITH LANGE FIRES.

SPECIAL PIREFIGHTING

PROCEDURES MOL YAYITYBIE

MAZARDOUS PRODUCTS FORMED

BY FIRE OR THERMAL DECOMP OXIDES OF CARBON.

DMUSUAL FIRE OR

EXPLOSION HARARDS: THIS MATERIAL IS PLANGEBLE AND MAY BE IGNITED BY

HEAT, SPARKS, FLAME OR STATIC ELECTRICITY.

EXPLOSIVE LIMITS.

(% BY VOLUME IN AIR) LOWER 1.0%

(% BY VOLUME IN AIR) UPPER 11.5%

6. ACCIDENTAL RELEASE MEASURES

MOR 000933

```
STEPS TO BE TAKEN IN CASE
 OF SPILL OR LEAK!
 REMOVE SOURCES OF IGNITION. MAINTAIN ADEQUATE
 VENTILATION. SOAR UP WITH AM IMERT ABSORBENT.
 STORE IN A CLOSED CONTAINER UNTIL DISPOSAL.
 7. MANDLING AND STORAGE
 SAFE STORAGE:
 STORE BELOW 120F IN CLOSED CONTAINER.
 (CONTACT LOCTITE CUSTOMER SERVICE 1-800-243-4874 FOR SHELF LIFE
 IMPORMATION)
 HANDLING.
 KEEP AWAY FROM ETRS. AVOID PROLONGED BREATHING OF
 VAPORS OR PROLOUGED SKIN CONTACT. KEEP AWAY PROM
 SPARKS, PLANCES, OR HIGH HEAT SOURCES.
 8. EXPOSURE CONTROLS, PERSONAL PROTECTION
 RTES:
 CHEMICAL SPLASH GOGGLES.
 SKIM:
 IMPERVIOUS RUBBER OR PLASTIC GLOVES RECOMMENDED.
 IMPERVIOUS CLOTHING OR BOOTS AS MEEDED.
 VENTILATION:
 SUPPLICIENT TO MAINTAIN VAPOR CONCENTRATION BELOW
 RESPIRATORY
 MIOSH/MSNA APPROVED ORGANIC VAPOR CARTRIDGE
 RESPIRATOR IF INDICATED.
 SEE SECTION 2 FOR EXPOSURE LIMITS.
 9. PHYSICAL AND CHEMICAL PROPERTIES
 APPEARANCE:
 BLUE LIQUID
 ODOR:
 MODERATE
 BOILING POINT:
 151-300F
 DOES NOT APPLY
 SOLUBILITY IN WATER:
 IMSOLUBLE
 LOCTITE CORPORATION
 01/
30/00
 ROCKY HILL, CONMECTICUT 06067
 EMERGENCY PHONE: (860) 571-5100
 81814
 TTWO NO. .
 9. PHYSICAL AND CHEMICAL PROPERTIES
CONTINUED)
 SPECIFIC GRAVITY
 0.93
 VOLATILE ORGANIC COMPORNO
 (EPA METHOD 24)
 74%; 5.3 POUNDS/GALLON.
 118304 NG
 VAPOR PRESSURE:
 VAPOR DEMSITY:
 2.5 TO 4.1
 EVAPORATION RATE
 (STEER = 1)
 10. STABILITY AND REACTIVITY
 MAXABDOUS POLYMERICATION: WILL NOT OCCUR
 INCOMPATIBILITY:
 STRONG ACIDS, BASES, OXIDIZING AGENTS, SELECTED
 AMINES WITH ALEALI METALS AND RALOGERS.
 COMDITIONS TO AVOID:
 NOT AVAILABLE
 HATARDONS DECOMPOSITION
 PRODUCTS (NON-TREEMAL): OXIDES OF CARBON, FORMIC ACID, DIMETRYLAMINE,
 PERCEIDES.
```

11. TOXICOLOGICAL IMPORMATION

SEE SECTION 3.

12. ECOLOGICAL IMPORMATION

NO DATA AVAILABLE

13. DISPOSAL COMSIDERATIONS

RECOMMENDED METRODS OF

INCINERATE FOLLOWING EPA AND LOCAL REGULATIONS. DIEBORAL.

EPA HAZARDOUS WASTE

200032 DO01/D035 - HAZARDOUS WASTE PER 40CFR 261, 21 AND A TOLF WASTE PER 261.24/MRTHYL STRYL RETOWN.

14. TRANSPORTATION INFORMATION DOT (49 CFR 172) DOMESTIC GROUND TRANSPORT PROPER SHIPPING MAME: CONSUMER COMMODITY (NOT MORE THAN ONE LITER); COATING SOLUTION (MORE THAN ONE LITER) MASARD CLASS OR DIVISION ORM-D (NOT MORE THAN ONE LITER); CLASS 3, PACKING GROUP II (MORE THAN ONE LITER) IDENTIFICATION NUMBER: NOWE (NOT MORE TRAN ONE LITER); UN 1139 (MORE THAN ONE LITER) MARINE POLLUTANT: MOME IATA LOCTITE CORPORATION 01/ 30/00 ROCKY MILL, COMMECTICUT 06067 ENGERGENCY PHONE: (860) 571-5100 OF 05 ITEM NO. : 81814 14. TRANSPORTATION IMPORMATION CONTINUED) PROPER SHIPPING MAME: COATING SOLUTION CLASS OR DIVISION: CLASS 3, PACKING GROUP II UM OR ID MUMBER: UM 1139 15. REGULATORY IMPORMATION CA PROPOSITION 65: WARRING: THIS PRODUCT CONTAINS A CHEMICAL ENOUGH THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. TOLUENE 16. OTHER INFORMATION ESTIMATED MFPA(R) CODE: MEALTH RALARD: FIRE MAZARD: REACTIVITY MALARD: 0 SPECIFIC MALARD: HOME ESTIMATED MRIS(E) CODE: HEALTH MARARD: FLANGEABILITY HASARD: 3 REACTIVITY EAGARDS: 1 PERSONAL PROTECTION: SHE SECTION 8. MYPA IS A REGISTERED TRADERGARK OF THE MATIONAL PIRE PROTECTION ASSN. MIS IS A REGISTERED TRADEMARK OF THE MATIONAL PAINT AND COATINGS PREPARED BY: STEPHEN REPETTO TITLE RESEARCE CERNIST, ENVIRONMENTAL HEALTH & SAFETY LOCTITE CORP., 1001 TR BR CR, ROCKT HILL CT 06067 COMPANY (860) 571-5100 (24ER.) PROME: REVISION DATE: JANUARY 27, 1999 REVISION: 0008 APPLICATION ASSISTANCE . BROWSE CATALOG . DISTRIBUTOR LOCATOR . DATASMEETS . ABOUT LOCTITE . CONTACT LOCTITE , LITERATURE . LOCTITE WORLD WIDE . SEARCH .

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MOR 000935

0067395516

RSDS #

When shipment is complete, retain for daily Harmat audit.

HAZARDOUS MATERIAL WARNING (HAZMAT) 5**2229** 

GRAINGER SEIPPING INFORMATION

STOCK #

1 A0671 PREIGHT CODE . 0800

DOT PROPER SELP MAKE ( CONSTINES COMMODITY, ORM-D

, 20 Lb. & UNDER REQUIRES 200 LB. BSC/32 ECT, UPS RESTRICTIONS

21 LB. & OVER REQUIRES 275 LB. BSC/44 ECT.

HAZARDOUS CLASS NUMBER :

PACKING GROUP

SHIPPING LABEL : ORM-D

: 3 LIMITED QUANTITY

CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON

RICEPTION

DOT/UPS EXEMPTION NO. |

: MAZARDOUS MATERIAL. DO NOT SHIP AIR!! COMMENTS 1

COMMENTS 2

SHIPPING PAPERS : AUTOMATED BILL OF LADING REQUIRED FOR TRUCK SHIPMENTS.

PLACARD OFFERED ? TES ( ) NO ( ) PLEASE MARK ONE

ERG TO ACCOMPANY SHIPMENT

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FAX: (860) 571-5465

8/12/99 35:54 ISSUED

MATERIAL SAFETY DATA SHEET

Page 1 of

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Item No.: Product Type: Flexible Anaerobic Gasket Flange Sealant 17430 — TMC I-94414 Anaerobic Adhesive

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                             | CAS No.                  | *              |
|---------------------------------------------------------|--------------------------|----------------|
| Urethane Methacrylate Resin<br>Substituted hydroxyalkyl | Proprietary              | 55-60          |
| methacrylate Poly(ethylene)                             | Proprietary<br>9002-88-4 | 20-25<br>15-20 |
| SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE              | 112945-52-5              | 1-3            |
| 1-Acetyl-2-phenylhydrazine<br>CUMENE HYDROPEROXIDE*     | 114-83-0<br>80-15-9      | 0.1-1 7        |

\* This component is listed as a SARA Section 313 Toxic Chemical.

### Ingredients which have exposure limits

| Exposure Limits (TWA) Ingredients          | ACGIH<br>(TLV) | OSHA<br>(PEL) | OTHER                     |
|--------------------------------------------|----------------|---------------|---------------------------|
| SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE | 10 mg/m3 TWA   | 6 mg/m3 TWA   | 3 mg/m3 TWA<br>resp. dust |
| Exposure Limits (STEL)<br>Ingredients      | ACGIH<br>(TLV) | OSHA<br>(PEL) |                           |

81-07-2

### 3. HAZARDS IDENTIFICATION

Toxicity:

SACCHARIN

Estimated oral LD50 greater than 5000 mg/kg. Estimated dermal LD50 greater than 2000 mg/kg.

Primary Routes of Entry:

Signs and Symptoms of Exposure:

None known

Existing Conditions

May cause dermatitis on prolonged contact with sensitive individuals.

Aggravated by Exposure: None known

| Literature Referenced Ingredients Target Organ and Other Health Effects |                                        |     | Carcinogen<br>NTP IARC DSHA |       |  |
|-------------------------------------------------------------------------|----------------------------------------|-----|-----------------------------|-------|--|
| ing earth is                                                            | ranger organi and other hearth crieoto |     | 1 1110                      | 03112 |  |
| Urethane Methacrylate Re<br>Substituted hydroxyalky                     |                                        | NO  | NO                          | NO    |  |
| methacrylate                                                            | ALG IRR                                | NO  | NO                          | NO    |  |
| Poly(ethylene)                                                          | NTO                                    | NO  | N/A                         | NO    |  |
| SILICA, AMORPHOUS, FUMED                                                |                                        |     |                             |       |  |
| CRYSTALLINE-FREE                                                        | NUI                                    | NO  | N/A                         | NO    |  |
| 1-Acety1-2-pheny1hydrazi                                                | ne ALG BLO KID MUT SOM                 | NO  | NO                          | NO    |  |
| CUMENE HYDROPERÓXIDE                                                    | ALG CNS COR IRR MUT                    | NO  | ND                          | NO    |  |
| SACCHARIN                                                               | NTO                                    | YES | 2 B                         | NO    |  |

### Abbreviations

N/A Not Applicable ALG Allergen
CNS Central nervous system
IRR Irritant
MUT Mutagen NUI Nuisance dust

2 B Possibly carcinogenic to humans BLO Blood COR Corrosive KID Kidney
NTO No Target Organs
SOM Evidence of some carcinogenicity

### 4. FIRST AID MEASURES

Ingestion:

Inhalation: Skin Contact: Eye Contact: Do not induce vomiting. Obtain medical attention. Keep individual calm. Does not apply
Wash with soap and water.
Flush at least 15 minutes with water. Obtain medical attention.

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MATERIAL SAFETY DATA SHEET

Page 2 of

Product Name:

Flexible Anaerobic Gasket Flange Sealant

Item No.:

17430

### 5. FIRE FIGHTING MEASURES

Flash Point: Recommended

More than 200°F Method: Tag Closed Cup

Extinguishing Agents:

Carbon dioxide, foam, dry chemical

Special Firefighting Procedures:

Not available

Hazardous Products formed

by Fire or Thermal Decomp Irritating organic vapors Unusual Fire or

Explosion Hazards: None

Explosive Limits:

(% by volume in air)Lower (% by volume in air)Upper Not available Not available

### 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak:

Soak up with an inert absorbent. Store in partly filled, closed container until disposal.

### 7. HANDLING AND STORAGE

Safe Storage:

Store below 100°F

(Contact Loctite Customer Handling:

Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes.

### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Safety glasses or goggles. Nitrile or neoprene gloves.

Ventilation: Respiratory

Does not apply Not available

See Section 2 for Exposure Limits.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor

Blue gel Mild

Boiling Point:

More than 300 F

pH: Solubility in Water: Does not apply Slight

Specific Gravity Volatile Organic Compound

1.020

(EPA Method 24) Vapor Pressure: Vapor Density:

Not available Less than 5mm Not available

Evaporation Rate

(Ether = 1)

Not available

### 10. STABILITY AND REACTIVITY

Stability:

Hazardous Polymerization:

Will not occur None

Incompatibility: Conditions to Avoid:

Not available

Hazardous Decomposition Products (non-thermal):

### 11. TOXICOLOGICAL INFORMATION

See Section 3.

### 12. ECOLOGICAL INFORMATION

No data available

### 13. DISPOSAL CONSIDERATIONS

Recommended methods of

disposal:

Incinerate following EPA and local regulations.

EPA Hazardous Waste Number

NH - Not a RCRA Hazardous Waste Material

### 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport Proper Shipping Name: Hazard Class or

Unrestricted

Division:

Unrestricted

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Page 3 of

8/12/99

ISSUED

MATERIAL SAFETY DATA SHEET

Product Name: Item No.:

Flexible Anaerobic Gasket Flange Sealant

Identification Number: Marine Pollutant:

None None

IATA

Proper Shipping Name: Class or Division:

Unrestricted Unrestricted

UN or ID Number:

None

1

### 15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive

harm.

Traces of ethylene oxide

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as

reasonably anticipated.

### 16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard:

Fire Hazard:

Reactivity Hazard: Specific Hazard:

Does not apply

Estimated HMIS(R) Code:

Health Hazard:

Flammability Hazard: Reactivity Hazards: Personal Protection:

See Section 8.

Louis Fabrizio

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By:

Title:

Company: (24hr.) Phone: Revision Date:

Regulatory Affairs Specialist Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 (860) 571-5100

January 27, 1999

Revision: 0030

Rec \$ 8/24/99

07/01/99

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MATERIAL SAFETY DATA SHEET

Page 01 of 05

5900 Flange Sealant 20166

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: 20166

Product Type: Elastomeric Rubber

TMC # 1258387

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                               | CAS No.     | 8     |
|-------------------------------------------|-------------|-------|
| Calcium carbonate Poly(dimethylsiloxane), | 471-34-1    | 25-50 |
| hydroxy terminated                        | 70131-67-8  | 20-40 |
| Poly(dimethylsiloxane), dimethyl          | 63148-62-9  | 5-20  |
| Oximinosilane                             | Proprietary | 1-10  |
| Silica, amorphous, treated                | 71889-01-5  | 1-5   |
| CARBON BLACK                              | 1333-86-4   | 1-3   |
| Stearic acid                              | 57-11-4     | 0.5-2 |
| Methyl ethyl ketoxime                     | Proprietary | ***   |

\*\*\*When this product is exposed to moisture, up to 10% methyl ethyl ketoxime may be formed.

Ingredients which have exposure limits

| Exposure Limits (TWA) Ingredients | ACGIH<br>(TLV) | OSHA<br>(PEL)                    | OTHER                    |
|-----------------------------------|----------------|----------------------------------|--------------------------|
| Calcium carbonate                 | 10 mg/m3 dust  | 15 mg/m3 dust<br>5 mg/m3 respir. | None                     |
| Silica, amorphous, treated        | 10 mg/m3       | 15 mg/m3 dust<br>5 mg/m3 respir. | None                     |
| CARBON BLACK                      | 3.5 mg/m3 TWA  | 3.5 mg/m3 TWA                    | 5ppm                     |
| Methyl ethyl ketoxime             | None           | None                             | 3 ppm TWA<br>10 ppm STEL |
| Exposure Limits (STEL)            | ACGIH          | OSHA                             |                          |
| Ingredients                       | (TLV)          | (PEL)                            |                          |
|                                   |                |                                  |                          |

### 3. HAZARDS IDENTIFICATION

Toxicity:

Skin and eye irritant. Moderately toxic

ingestion.

When heated to temperatures above 300°F (150°C) in the presence of air, this product can form

LOCTITE CORPORATION

07/01/99

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MATERIAL SAFETY DATA SHEET

Page 02 of 05

Item No.:

20166

### 3. HAZARDS IDENTIFICATION

(continued)

formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.

Primary Routes of Entry:

Skin, ingestion, inhalation.

Signs and Symptoms

of Exposure:

Methyl ethyl ketoxime produced during cure is toxic and irritates eyes, nose and throat.

Existing Conditions

Aggravated by Exposure: None known

| Ingredients                               | Literature Referenced<br>Target Organ and Other Health Effects |    | cinog<br>IARC | en<br>OSHA |
|-------------------------------------------|----------------------------------------------------------------|----|---------------|------------|
| Calcium carbonate Poly(dimethylsiloxane), | ипі                                                            | NO | NO            | МО         |
| hydroxy terminated                        | NTO                                                            | NO | NO            | NO         |
| Poly(dimethylsiloxane),                   |                                                                |    |               |            |
| dimethyl                                  | IRR                                                            | NO | NO            | NO         |
| Oximinosilane                             | No Data                                                        | ИО | NO            | NO         |
| Silica, amorphous, trea                   | ted No Data                                                    | NO | NO            | ИО         |
| CARBON BLACK                              | RES                                                            | ИО | 2B            | ИО         |
| Stearic acid                              | IRR                                                            | МО | NO            | ИО         |
| Methyl ethyl ketoxime                     | ALG BLO CNS EYE IRR SOM                                        | ИО | ИО            | ИО         |

### Abbreviations

2B Possibly carcinogenic to humans

BLO Blood

EYE Eyes NTO No Target Organs

RES Respiratory

ALG Allergen

CNS Central nervous system

IRR Irritant NUI Nuisance dust

SOM Evidence of some carcinogenicity

### 4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm.

Obtain medical attention

Inhalation:

Remove to fresh air. If symptoms persist, obtain

medical attention.

Skin Contact:

Wipe off paste with paper towel or cloth.

Wash thoroughly with soap and water

Eye Contact:

Flush at least 15 minutes with water. Obtain

medical attention.

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07/01/99

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MATERIAL SAFETY DATA SHEET

Page 03 of 05

Item No.:

20166

### 5. FIRE FIGHTING MEASURES

Flash Point:

More than 200°F

Method: Tag Closed Cup

Recommended

Extinguishing Agents:

Carbon dioxide, foam, dry chemical

Special Firefighting

Procedures:

Not available

Hazardous Products formed

by Fire or Thermal Decomp Formaldehyde, silica fume, oxides of carbon. Unusual Fire or

Explosion Hazards: None

Explosive Limits:

(% by volume in air) Lower Not available (% by volume in air) Upper Not available

### 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak: Wipe or scrape up spilled material. Maintain good

ventilation for large spills. Place scrap material in a well ventilated area and allow to

cure to rubber.

7. HANDLING AND STORAGE

Store in a dry area below 90°F. Keep Safe Storage:

containers closed when not in use.

(Contact Loctite Customer Service 1-800-243-4874 for shelf life information) Avoid skin and eye contact. Avoid breathing vapor.

Handling:

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Safety glasses or goggles. Avoid contact lenses.

Skin: Rubber or plastic gloves.

Ventilation: Provide local ventilation for prolonged use in a

confined area.

Respiratory Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Base: Black paste. Appearance:

Odor: Mild.

Not Applicable, Polymeric Boiling Point:

pH: 7-8

Solubility in Water: Polymerized

Specific Gravity 1.31

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MATERIAL SAFETY DATA SHEET Page 04 of 05

20166 Item No.:

9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Volatile Organic Compound

(EPA Method 24) 4.01%; 52.5 grams per liter

Less than 5mm at 70°F. Vapor Pressure:

Vapor Density: 3.0

Evaporation Rate

Not available (Ether = 1)

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Strong oxidizers. Polymerized by contact with Incompatibility:

moisture.

Conditions to Avoid: Not available

Hazardous Decomposition

Methyl ethyl ketoxime Products (non-thermal):

11. TOXICOLOGICAL INFORMATION

See Section 3.

ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of

disposal:

Cured rubber can be incinerated or landfilled

following EPA and local regulations

EPA Hazardous Waste

Number

NH - Not a RCRA Hazardous Waste Material

TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name:

Unrestricted

Hazard Class or

Division:

Unrestricted

Identification Number: None Marine Pollutant:

None

IATA

Proper Shipping Name:

Unrestricted

Class or Division:

Unrestricted

UN or ID Number:

None

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07/01/99

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MATERIAL SAFETY DATA SHEET

Page 05 of 05

Item No.:

20166

15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to

the State of California to cause cancer and birth defects or other reproductive

harm.

Traces of ethylene oxide, propylene oxide

and dioxane.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard:

Specific Hazard: No water

Estimated HMIS(R) Code:

Health Hazard: 1 Flammability Hazard: 1 Reactivity Hazards: 0

Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn. Prepared By:

Title: Company:

(24hr.) Phone: Revision Date: Stephen Repetto

Research Chemist, Environmental Health & Safety Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067

(860) 571-5100

January 27, 1999

Revision: 0010

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TMC# 1265981

Page 1 of 3

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

FLANGE SEALANT 509 300ML CQ 21525

Item No.: Product Type:

Anaerobic Adhesive

Rec. 8/2/00

### COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                                           | CAS No.                                                     | 8                                     |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------|
| Urethane Methacrylate Resin<br>Substituted hydroxyalkyl                                               | Proprietary                                                 | 55-60                                 |
| methacrylate Poly(ethylene) SILICA, AMORPHOUS, FUMED,                                                 | Proprietary<br>9002-88-4                                    | 20-25<br>15-20                        |
| CRYSTALLINE-FREE Polyglycol dimethacrylate 1-Acetyl-2-phenylhydrazine CUMENE HYDROPEROXIDE* SACCHARIN | 112945-52-5<br>25852-47-5<br>114-83-0<br>80-15-9<br>81-07-2 | 1-3<br>1-3<br>0.1-1<br>0.1-1<br>0.1-1 |

<sup>\*</sup> This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA)                         | ACGIH        | OSHA        | OTHER                      |
|-----------------------------------------------|--------------|-------------|----------------------------|
| Ingredients                                   | (TLV)        | (PEL)       |                            |
| SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE | 10 mg/m3 TWA | 6 mg/m3 TWA | 3 mg/m3 TWA resp. dust     |
| CUMENE HYDROPEROXIDE                          | None         | None        | 1ppm(6mg/m3)<br>Skin(WEEL) |
| Exposure Limits (STEL)                        | ACGIH        | OSHA        |                            |
| Ingredients                                   | (TLV)        | (PEL)       |                            |

### HAZARDS IDENTIFICATION

Toxicity: Primary Routes of Entry: Signs and Symptoms of Exposure:

Possible mild eye irritant. None known

May cause dermatitis on prolonged contact with sensitive individuals.

Existing Conditions
Aggravated by Exposure:

None known

| Ingredients                                                                                                                            | Literature Referenced<br>Target Organ and Other Health Effect | Carcinogen<br>s NTP IARC OSHA                             |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| Urethane Methacrylate R<br>Substituted hydroxyalk                                                                                      | esin No Data                                                  | NO NO NO                                                  |
| methacrylate<br>Poly(ethylene)                                                                                                         | ALG IRR<br>NTO                                                | NO NO NO<br>NO N/A NO                                     |
| SILICA, AMORPHOUS, FUME<br>CRYSTALLINE-FREE<br>Polyglycol dimethacryla<br>1-Acetyl-2-phenylhydraz<br>CUMENE HYDROPEROXIDE<br>SACCHARIN | NIIT                                                          | NO N/A NO<br>NO NO NO<br>NO NO NO<br>NO NO NO<br>NO 2B NO |

### Abbreviations

N/A Not Applicable
ALG Allergen
CNS Central nervous system
IRR Irritant
MUT Mutagen NUI Nuisance dust

2B Possibly carcinogenic to humans BLO Blood COR Corrosive KID Kidney NTO No Target Organs SOM Evidence of some carcinogenicity

### 4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm. Obtain medical attention.
Does not apply
Wash with soap and water.
Flush at least 15 minutes with water. Inhalation: Skin Contact: Eye Contact:

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MATERIAL SAFETY DATA SHEET

Page 2 of 3

7/28/00

Product Name:

FLANGE SEALANT 509 300ML CQ 21525

Item No.:

### 5. FIRE FIGHTING MEASURES

Flash Point: Recommended

More than 200°F

Method: Tag Closed Cup

Extinguishing Agents: Special Firefighting Procedures:

Carbon dioxide, foam, dry chemical

Not available

Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or
Explosion Hazards:
None

Explosive Limits;

(% by volume in air)Lower (% by volume in air)Upper Not available Not available

### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak:

Soak up with an inert absorbent. Store filled, closed container until disposal. Store in partly

### HANDLING AND STORAGE

Safe Storage: (Contact Loctite Customer Handling:

Store below  $100^{\circ}F$  Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes.

### EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin: Ventilation:

Safety glasses or goggles. Rubber or plastic gloves. Does not apply Not available

Respiratory

See Section 2 for Exposure Limits.

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Blue liquid

Odor: Boiling Point:

Mild More than 300°F Does not apply

Slight 1.12

12.88%; 131.4 grams per liter Less than 5mm Not available

Bolling Point:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Not available

### STABILITY AND REACTIVITY

Stable Will not occur

None

Not available

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal):

None

### 11. TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg.

### ECOLOGICAL INFORMATION

No data available

### 13. DISPOSAL CONSIDERATIONS

Recommended methods of

disposal: EPA Hazardous Waste

Incinerate following EPA and local regulations.

Number

NH - Not a RCRA Hazardous Waste Material

### TRANSPORTATION INFORMATION

DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name:

Unrestricted

MOR 000946

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MATERIAL SAFETY DATA SHEET

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7/28/00

Product Name: Item No.:

FLANGE SEALANT 509 300ML CQ

Unrestricted

Hazard Class or Division: Identification Number: Marine Pollutant:

None None

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted None

15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Ethylene Oxide

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

Does not apply

Estimated HMIS(R) Code:
 Health Hazard:
 Flammability Hazard:
 Reactivity Hazards:
 Personal Protection:

See Section 8.

1\* 1

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist: Safety, Health&Regulatory Affairs
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
January 27, 1999 Revision: 0010

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MATERIAL SAFETY DATA SHEET

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### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

3880 Adhesive Electrically Conductive 30077

Item No.: Product Type:

Conductive Adhesive

### COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                          | CAS No.                                                                        | *                                     |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------|
| SILVER* Epoxy resin Epoxy resin Epoxy resin Amine hardener HARDENER Carbitol acetate | 7440-22-4 Proprietary Proprietary Proprietary Proprietary Proprietary 112-15-2 | 50-70<br>10-30<br>10-30<br>1-5<br>1-5 |

\* This component is listed as a SARA Section 313 Toxic Chemical.

The following numbers have been used to register components of this product as trade secrets for the State of New Jersey:

NJ 06-070-1067-5041P

NJ 06-070-1067-5042P

NJ 06-070-1067-5090P

NJ 06-070-1067-5091P

NJ 06-070-1067-5092P

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients ACGIH OSHA OTHER (TLV) (PEL) SILVER 0.1 mg/m3 TWA0.01mg/m3 TWA None Exposure Limits (STEL) Ingredients ACGIH OSHA (TĽV) (PEL)

### HAZARDS IDENTIFICATION

Toxicity:

May irritate eyes, skin, and gastrointestinal tract. Prolonged or repeated exposure may cause allergic skin reaction. Prolonged expoxure to silver may cause argyria which is a pigmentation of skin and other body tissue. Inhalation, ingestion, eyes, skin.

Primary Routes of Entry: Signs and Symptoms of Exposure:

Inhalation may produce allergic reactions in some individuals. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Eye contact may cause severe irritation, burning sensation, blurred vision. Skin contact may produce allergic reaction in some individuals.

Existing Conditions

Aggravated by Exposure:

None known

| Ingredients                                                                         | Literature Referenced<br>Target Organ and Other Health Effects                            | Carcinogen<br>NTP IARC OSHA              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------|
| SILVER Epoxy resin Epoxy resin Epoxy resin Amine hardener HARDENER Carbitol acetate | ALG EYE IRR RES SKI<br>ALG IRR<br>ALG IRR<br>No Data<br>No Data<br>No Data<br>CNS IRR KID | NO NO NO NO NO NO NO NO NO NO NO NO NO N |

Abbreviations

ALG Allergen EYE Eyes KID Kidney SKI Skin

CNS Central nervous system IRR Irritant

MOR 000948

RES Respiratory

### 4. FIRST AID MEASURES

Ingestion: Inhalation: Skin Contact: Do not induce vomiting. Keep individual calm. Seek medical attention immediately. Remove to fresh air. If symptoms persist, obtain medical attention. Remove contaminated clothing, wash immediately

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MATERIAL SAFETY DATA SHEET

Product Name: Item No .:

3880 Adhesive Electrically Conductive 30077

with soap and water. Wash contaminated clothing thoroughly before reuse. If irritation persists, obtain medical attention. Flush thoroughly with water. If irritation

Eye Contact:

persists, obtain medical attention.

### FIRE FIGHTING MEASURES

Flash Point: Recommended More than 200°F Method: Pensky-Martens Closed Cup

Recommended
Extinguishing Agents: Carbon dioxide, foam, dry
Special Firefighting
Procedures: Use self-contained breath:
Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or
Explosion Hazards: None Carbon dioxide, foam, dry chemical Use self-contained breathing supply.

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Take up with an inert absorbent. Store in a closed container until disposal.

### 7. HANDLING AND STORAGE

Safe Storage:

Store below 80°F. Refrigerated storage (-40°F) is recommended to extend shelf life Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes. Avoid prolonged inhalation of mists or vapors. (Contact Loctite Customer Handling:

### EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Wear chemical splash goggles.
Wear solvent resistant gloves.
Provide sufficient local exhaust ventilation to maintain exposure below TLY(s).
If the TLV of the product is exceeded, a mechanical or self contained breathing appartus is Ventilation:

Respiratory

advised.

See Section 2 for Exposure Limits.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Silver liquid\paste Faint epoxy More than 300°F Does not apply Not available 2.44 Odor: Boiling Point: Solubility in Water: Specific Gravity Volatile Organic Com (EPA Method 24)

Compound 3.04 %; 74.26 grams/liter Not available Not available

Vapor Pressure: Vapor Density: Evaporation Rate (Ether = 1) Not available

### STABILITY AND REACTIVITY

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal): Stable Will not occur Strong oxidizers Not available Amines, aldehydes

### TOXICOLOGICAL INFORMATION

See Section 3.

### ECOLOGICAL INFORMATION

No data available

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No.:

3880 Adhesive Electrically Conductive 30077

### DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Do not landfill. Dispose of commercial material and empty containers through a licensed/permitted disposal contractor.

EPA Hazardous Waste

Number

D011 / TCLP hazardous when disposed of per 40 CFR 261.24 (Silver).

### 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or
Division:
Identification Number:
Marine Pollutant: Unrestricted Unrestricted

None None

ATAI

Proper Shipping Name: Class or Division: UN or ID Number: Unrestricted Unrestricted None

REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive

harm.

epichlorohydrin

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

Does not apply

Estimated HMIS(R) Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazards:
Personal Protection:

2\* 10 See Section 8.

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Prepared By: Title: Company: (24hr.) Phone: Revision Date:

Gary Pierson Health and Safety Specialist Loctite Corp. 1001 Tr Br Cr, Rocky Hill CT 06067 (860) 571-5100 January 27, 1999 Revision: 0005

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MATERIAL SAFETY DATA SHEET

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

FLANGE SEALANT 509 850 CQ 50965

Item No.: Product Type:

Anaerobic Adhesive

Rec. 9/8/00 5

### COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                                                                                    | CAS No.                                                     | *                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------|
| Urethane Methacrylate Resin<br>Substituted hydroxyalkyl                                                                                        | Proprietary                                                 | 55-60                                 |
| methacrylate<br>Poly(ethylene)                                                                                                                 | Proprietary<br>9002-88-4                                    | 20-25<br>15-20                        |
| SILTCA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE<br>Polyglycol dimethacrylate<br>1-Acetyl-2-phenylhydrazine<br>CUMENE HYDROPEROXIDE*<br>SACCHARIN | 112945-52-5<br>25852-47-5<br>114-83-0<br>80-15-9<br>81-07-2 | 1-3<br>1-3<br>0.1-1<br>0.1-1<br>0.1-1 |

<sup>\*</sup> This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA)<br>Ingredients                                  | ACGIH<br>(TLV)       | OSHA<br>(PEL)       | OTHER                                                   |
|-----------------------------------------------------------------------|----------------------|---------------------|---------------------------------------------------------|
| SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE<br>CUMENE HYDROPEROXIDE | 10 mg/m3 TWA<br>None | 6 mg/m3 TWA<br>None | 3 mg/m3 TWA<br>resp. dust<br>1ppm(6mg/m3)<br>Skin(WEEL) |
| Exposure Limits (STEL) Ingredients                                    | ACGIH<br>(TLV)       | OSHA<br>(PEL)       |                                                         |

#### HAZARDS IDENTIFICATION

Possible mild eye irritant. None known

Toxicity: Primary Routes of Entry: Signs and Symptoms of Exposure:

May cause dermatitis on prolonged contact with sensitive individuals.

Existing Conditions

Aggravated by Exposure: None known

| Ingredients                                                                                     | Literature Referenced<br>Target Organ and Other Health Effects |                      | cinoge<br>IARC              |                      |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------|-----------------------------|----------------------|
| Urethane Methacrylate R<br>Substituted hydroxyalk                                               | esin No Data                                                   | NO                   | NO                          | NO .                 |
| methacrylate Poly(ethylene) Sillica, AMORPHOUS, FUME                                            | ALG IRR<br>NTO                                                 | NO<br>NO             | NO<br>N/A                   | NO<br>NO             |
| CRYSTALLINE-FREE Polyglycol dimethacryla 1-Acetyl-2-phenylhydraz CUMENE HYDROPEROXIDE SACCHARIN | NUI<br>te ALG TRR                                              | NO<br>NO<br>NO<br>NO | N/A<br>NO<br>NO<br>NO<br>2B | NO<br>NO<br>NO<br>NO |

## Abbreviations

N/A Not Applicable ALG Allergen CNS Central nervous system IRR Irritant MUT Mutagen NUI Nuisance dust

2B Possibly carcinogenic to humans BLO Blood COR Corrosive KID Kidney NTO No Target Organs SOM Evidence of some carcinogenicity

## 4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm. Obtain medical attention. Does not apply Wash with soap and water. Flush at least 15 minutes with water.

Inhalation: Skin Contact: Eye Contact:

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MATERIAL SAFETY DATA SHEET Page

Product Name: FLANGE SEALANT 509 850 CQ

Item No.:

50965

## FIRE FIGHTING MEASURES

More than 200°F Tag Closed Cup Flash Point: Method:

Recommended Carbon dioxide, foam, dry chemical

Extinguishing Agents: Special Firefighting Procedures:

Not available

Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or
Explosion Hazards:
None

Explosive Limits:

(% by volume in air)Lower (% by volume in air)Upper Not available Not available

## 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Soak up with an inert absorbent. Store filled, closed container until disposal. Store in partly

#### <u>HANDLING AND STORAGE</u>

Safe Storage:

Store below 100°F Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes. (Contact Loctite Customer Handling:

## EXPOSURE CONTROLS, PERSONAL PROTECTION

Safety glasses or goggles. Rubber or plastic gloves. Does not apply Not available Eyes: Skin: Yentilation:

Respiratory

See Section 2 for Exposure Limits.

#### PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid Odor: Boiling Point: Mild More than 300°F Does not apply Slight 1.12

12.88%; 131.4 grams per liter Less than 5mm Not available

Boiling Form.
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1) Not available

#### STABILITY AND REACTIVITY

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal): Stable Will not occur None Not available

None

### TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg.

#### ECOLOGICAL INFORMATION

No data available

## DISPOSAL CONSIDERATIONS

Recommended methods of

disposal: EPA Hazardous Waste Incinerate following EPA and local regulations.

NH - Not a RCRA Hazardous Waste Material

## TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No.:

FLANGE SEALANT 509 850 CQ 50965

Unrestricted

Hazard Class or Division: Identification Number: Marine Pollutant:

None None

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

### 15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive

Ethylene Oxide

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

### 16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

1 1 Does not apply

Estimated HMIS(R) Code:
 Health Hazard:
 Flammability Hazard:
 Reactivity Hazards:
 Personal Protection: 1\*

See Section 8.

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn. NFPA is a registered HMIS is a registered

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist: Safety, Health&Regulatory Affairs
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January 27, 1999
Revision: 0010

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MATERIAL SAFETY DATA SHEET

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Item No.: Product Type:

Loctite(R) 5900(R) Flange Sealant Sensor-Safe 20167 Elastomeric Rubber

## COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                                                          | CAS No.                                                                    | €                                   |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------|
| Calcium carbonate                                                                                                    | 471-34-1                                                                   | 25-50                               |
| Poly(dimethylsiloxane),<br>hydroxy terminated<br>Poly(dimethylsiloxane),                                             | 70131-67-8                                                                 | 20-40                               |
| dimethylsiloxane), dimethyl Oximinosilane Silica, amorphous, treated CARBON BLACK Stearic acid Methyl ethyl ketoxime | 63148-62-9<br>Proprietary<br>71889-01-5<br>1333-86-4<br>57-11-4<br>96-29-7 | 5-20<br>1-10<br>1-5<br>1-3<br>0.5-2 |

\*\*\*When this product is exposed to moisture, up to 10% methyl ethyl ketoxime may be formed.

Ingredients which have exposure limits

| Exposure Limits (TWA)<br>Ingredients  | ACGIH<br>(TLV)                         | OSHA<br>(PEL)                 | OTHER                            |
|---------------------------------------|----------------------------------------|-------------------------------|----------------------------------|
| Calcium carbonate                     | 10 mg/m3 dust                          | 15 mg/m3 dust 5 mg/m3 respir. | None                             |
| Silica, amorphous, treated            | 10mg/m3 (Inhal)                        | 20 mppcf                      | 6 mg/m3                          |
| CARBON BLACK<br>Methyl ethyl ketoxime | 3mg/m3 (Resp)<br>3.5 mg/m3 TWA<br>None | 3.5 mg/m3 TWA<br>None         | 5ppm<br>3 ppm TWA<br>10 ppm STEL |
| Exposure Limits (STEL)<br>Ingredients | ACGIH<br>(TLV)                         | OSHA<br>(PEL)                 |                                  |

## HAZARDS IDENTIFICATION

Toxicity:

Skin and eye irritant. Moderately toxic

ingestion. When heated to temperatures above 300°F (150°C) in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde. Skin, ingestion, inhalation. ingestion.

Primary Routes of Entry: Signs and Symptoms of Exposure:

Methyl ethyl ketoxime produced during cure is toxic and irritates eyes, nose and throat.

Existing Conditions Aggravated by Exposure: None known

| Ingredients                                                                                                                               | Literature Referenced<br>Target Organ and Other Health Effects         | Car<br>NTP                 | cinoge<br>IARC                   | en<br>OSHA                 |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------|----------------------------------|----------------------------|
| Calcium carbonate                                                                                                                         | NUI                                                                    | NO                         | NO                               | NO                         |
| Poly(dimethylsiloxane),<br>hydroxy terminated                                                                                             | NTO                                                                    | NO                         | NO                               | NO                         |
| Poly(dimethylsiloxane),<br>dimethyl<br>Oximinosilane<br>Silica, amorphous, treat<br>CARBON BLACK<br>Stearic acid<br>Methyl ethyl ketoxime | IRR<br>No Data<br>ted No Data<br>RES<br>IRR<br>ALG BLO CNS EYE IRR SOM | NO<br>NO<br>NO<br>NO<br>NO | NO<br>NO<br>NO<br>2B<br>NO<br>NO | NO<br>NO<br>NO<br>NO<br>NO |

Abbreviations

MOR 000954

Possibly carcinogenic to humans BLO Blood EYE Eyes NTO No Target Organs RES Respiratory

ALG Allergen CNS Central nervous system IRR Irritant NUI Nuisance dust

SOM Evidence of some carcinogenicity

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No.:

Loctite(R) 5900(R) Flange Sealant Sensor-Safe

20167

#### 4. FIRST AID MEASURES

Ingestion: Inhalation: Do not induce vomiting. Keep individual calm. Obtain medical attention Remove to fresh air. If symptoms persist, obtain

medical attention.
Wipe off paste with paper towel or cloth.
Wash thoroughly with soap and water
Flush at least 15 minutes with water. Ob Skin Contact: Eye Contact:

medical attention.

#### FIRE FIGHTING MEASURES

Flash Point: Recommended

More than 200°F Method: Tag Closed Cup

Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting
Procedures: Not available
Hazardous Products formed
by Fire or Thermal Decomp Formaldehyde, silica fume, oxides of carbon.
Unusual Fire or
Explosion Hazards: None

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

#### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Wipe or scrape up spilled material. Maintain good ventilation for large spills. Place scrap material in a well ventilated area and allow to

cure to rubber.

#### HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer

Handling:

Store in a dry area below 90°F. Keep containers closed when not in use. Service 1-800-243-4874 for shelf life information) Avoid skin and eye contact. Avoid breathing vapor.

#### EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin;

Safety glasses or goggles. Avoid contact lenses. Rubber or plastic gloves. Provide local ventilation for prolonged use in a confined area. Not available

Ventilation:

Respiratory

See Section 2 for Exposure Limits.

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Black paste.

Odor: Boiling Point:

Mild.

Not Applicable, Polymeric 7-8

Polymerized 1.31

4.01%; 52.5 grams per liter Less than 5mm at 70°F.

PH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Not available

## 10. STABILITY AND REACTIVITY

Stability: Hazardous Polymerization: Incompatibility:

Stable
Will not occur
Strong oxidizers.
moisture.
Not available Polymerized by contact with

Conditions to Avoid: Hazardous Decomposition Products (non-thermal):

Methyl ethyl ketoxime

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No.:

Loctite(R) 5900(R) Flange Sealant Sensor-Safe 20167

TOXICOLOGICAL INFORMATION

See Section 3.

ECOLOGICAL INFORMATION

No data available

DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Cured rubber can be incinerated or landfilled following EPA and local regulations

EPA Hazardous Waste Number

NH - Not a RCRA Hazardous Waste Material

TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or
Division:
Identification Number:
Marine Pollutant:

Unrestricted

Unrestricted

None None

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Traces of ethylene oxide, propylene oxide

and dioxane.

OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

No water

1

Estimated HMIS(R) Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazards:
Personal Protection:

See Section 8.

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trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

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1/17/01 23:52:36 571-5465

MATERIAL SAFETY DATA SHEET

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CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Item No.: Product Type: 300ML HIGH TEMP FLANGE SLT

12666 Anaerobic Rec /26/01

2. COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                                                       | CAS No.                                                  | 8                                    |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------|
| Polyurethane methacrylate resin Aromatic dimethacrylate ester Hydroxyalkyl methacrylate SILICA, AMORPHOUS, FUMED, | Proprietary<br>24448-20-2<br>868-77-9                    | 65-70<br>5-10<br>5-10                |
| CRYSTALLINE-FREE ACRYLIC ACID* CUMENE HYDROPEROXIDE* 1-Acetyl-2-phenylhydrazine SACCHARIN                         | 112945-52-5<br>79-10-7<br>80-15-9<br>114-83-0<br>81-07-2 | 5-10<br>5-7<br>1-3<br>0.1-1<br>0.1-1 |

<sup>\*</sup> This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA)<br>Ingredients                                       | ACGIH<br>(TLV)                   | OSHA<br>(PEL)                    | OTHER                                         |
|----------------------------------------------------------------------------|----------------------------------|----------------------------------|-----------------------------------------------|
| Hydroxyalkyl methacrylate<br>SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE | None                             | None                             | 3 ppm ceiling                                 |
| CRYSTALLINE-FREE                                                           | 10 mg/m3 TWA                     | 6 mg/m3 TWA                      | 3 mg/m3 TWA<br>resp. dust                     |
| ACRYLIC ACID                                                               | 2 ppm TWA skin<br>5.9 mg/m3 skin | 10 ppm TWA skin<br>30 mg/m3 skin | 1 man mun alain                               |
| CUMENE HYDROPEROXIDE                                                       | None                             | None None                        | 3 ppm STEL skin<br>1ppm(6mg/m3)<br>Skin(WEEL) |
| Exposure Limits (STEL)<br>Ingredients                                      | ACGIH<br>(TLV)                   | OSHA<br>(PEL)                    |                                               |

### HAZARDS IDENTIFICATION

Toxicity:

Liquid is an eye and skin irritant. Vapors may irritate eye, nose and throat. Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg. None known

Primary Routes of Entry: Signs and Symptoms of Exposure:

Irritation of eyes, skin , nose or throat. May cause dermatitis on, prolonged contact in sensitive individuals.

Existing Conditions
Aggravated by Exposure:

Acrylic acid: Upper respiratory and lung diseases, dermatitis

| Ingredients                                                                                                       | Literature Referenced<br>Target Organ and Other Health Effects | Car<br>NTP                 | Cinog                         | en<br>OSHA                 |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------|-------------------------------|----------------------------|
| Polyurethane methacryla<br>resin<br>Aromatic dimethacrylate<br>Hydroxyalkyl methacryla<br>SILICA, AMORPHOUS, FUME | No Data<br>e ester ALG IRR<br>ete ALG IRR                      | NO<br>NO<br>NO             | NO<br>NO<br>NO                | NO<br>NO<br>NO             |
| CRYSTALLINE-FREE ACRYLIC ACID CUMENE HYDROPEROXIDE 1-Acetyl-2-phenylhydraz SACCHARIN                              | NUI<br>ALG COR IRR KID LIV<br>ALG CNS COR IRR MUT              | NO<br>NO<br>NO<br>NO<br>NO | N/A<br>N/A<br>NO<br>NO<br>N/A | NO<br>NO<br>NO<br>NO<br>NO |

#### Abbreviations

N/A Not Applicable BLO Blood COR Corrosive KID Kidney MUT Mutagen NUI Nuisance dust

ALG Allergen CNS Central nervous system IRR Irritant LIV Liver NTO No Target Organs SOM Evidence of some carcinogenicity

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MATERIAL SAFETY DATA SHEET

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Product Name:

300ML HIGH TEMP FLANGE SLT 12666

Item No.:

4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm. Obtain medical attention. Remove to fresh air. If symptoms persist, obtain medical attention. Wash with soap and water. Flush at least 15 minutes with water. Obtain medical attention.

Inhalation:

Skin Contact: Eye Contact:

FIRE FIGHTING MEASURES

Method: Tag Closed Cup

Carbon dioxide, foam, dry chemical

Flash Point: More than 200°F Merecommended
Extinguishing Agents: Carbon dioxide, foam, dry
Special Firefighting
Procedures: Not available
Hazardous Products formed
by Fire or Thermal Decomp Unusual Fire or
Explosion Hazards: None

Explosive Limits: (% by volume in air)Lower (% by volume in air)Upper

2.0% Acrylic acid 8.0% Acrylic acid

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Scrape up as much as possible and store in a half filled, closed container until disposal. Residues may be cleaned up with solvent.

7. HANDLING AND STORAGE

Safe Storage:
(Contact Loctite Customer
Handling:

Store below 100°F Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes. Avoid prolonged breathing of vapors.

EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin: Ventilation:

Safety glasses or goggles. Rubber or plastic gloves. Must be adequate to avoid exceeding TLV. Not available

Respiratory

See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Blue Gel

Odor: Boiling Point:

Sharp More than 300°F

Does not apply

Boiling Point:
pH:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Low 1.1 at 80°F

Not available Less than 5mm at 80°F Not available

Not available

STABILITY AND REACTIVITY

Stable Will not occur None Not available

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal):

None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

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Product Name: Item No.:

300ML HIGH TEMP FLANGE SLT

ĬŽ666

#### DISPOSAL CONSIDERATIONS

Recommended methods of disposal:
EPA Hazardous Waste

Incinerate following EPA and local regulations.

Number

NH - Not a RCRA Hazardous Waste Material

#### 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name: Hazard Class or

Unrestricted Unrestricted

Division: Identification Number: Marine Pollutant:

None None

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

#### 15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive

harm.

Ethylene Oxide

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

#### 16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard:

Reactivity Hazard: Specific Hazard:

2 1 1 Does not apply

Estimated HMIS(R) Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazards:
Personal Protection:

See Section 8.

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Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist, Environmental Health & Safety
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
January 26, 1999 Revision: 0032

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## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Loctite(R) Flexible Anaerobic Gasket Flange Slnt 17430

Item No.: Product Type:

Anaerobic Adhesive

## COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                      | CAS No.                  | 8                       |                |
|------------------------------------------------------------------|--------------------------|-------------------------|----------------|
| Urethane Methacrylate Resin<br>Substituted hydroxyalkyl          | Proprietary              | 55-60                   | REDVED         |
| methacrylate Poly(ethylene) SILICA, AMORPHOUS, FUMED,            | Proprietary<br>9002-88-4 | 20-25<br>15-20          | Jul 2 1 2600   |
| CRYSTALLINE-FREE                                                 | 112945-52-5<br>114-83-0  | 0.1 - 3                 | 002            |
| 1-Acetyl-2-phenylhydrazine<br>CUMENE HYDROPEROXIDE*<br>SACCHARIN | 80-15-9<br>81-07-2       | 0.1-1<br>0.1-1<br>0.1-1 | THE MOREY COR? |

<sup>\*</sup> This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA)                      | ACGIH        | OSHA        | OTHER                                    |
|--------------------------------------------|--------------|-------------|------------------------------------------|
| Ingredients                                | (TLV)        | (PEL)       |                                          |
| SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE | 10 mg/m3 TWA | 6 mg/m3 TWA | 3 mg/m3 TWA                              |
| CUMENE HYDROPEROXIDE                       | None         | None        | resp. dust<br>1ppm(6mg/m3)<br>Skin(WEEL) |
| Exposure Limits (STEL)                     | ACGIH        | OSHA        |                                          |
| Ingredients                                | (TLV)        | (PEL)       |                                          |

## HAZARDS IDENTIFICATION

Toxicity:

Estimated oral LD50 greater than 5000 mg/kg. Estimated dermal LD50 greater than 2000 mg/kg.

None known

Primary Routes of Entry: Signs and Symptoms of Exposure:

May cause dermatitis on prolonged contact with sensitive individuals.

Exicting Conditions

Aggravated by Exposure:

None known

| Ingredients                                                                                                 | Literature Referenced                 | Car            | cinog                 | en                   |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|-----------------------|----------------------|
|                                                                                                             | Target Organ and Other Health Effects | NTP            | IARC                  | OSHA                 |
| Urethane Methacrylate F<br>Substituted hydroxyalk                                                           | esin No Data                          | NO             | МО                    | NO                   |
| methacrylate                                                                                                | ALG IRR                               | NO             | NO                    | NO                   |
| Poly(ethylene)                                                                                              | NTO                                   | NO             | N/A                   | NO                   |
| SILÎCA, ÂMORPHOUS, FUME<br>CRYSTALLINE-FREE<br>1-Acetyl-2-phenylhydraz<br>CUMENE HYDROPEROXIDE<br>SACCHARÎN | NUI                                   | NO<br>NO<br>NO | N/A<br>NO<br>NO<br>2B | NO<br>NO<br>NO<br>NO |

## Abbreviations

N/A Not Applicable ALG Allergen CNS Central nervous system IRR Irritant MUT Mutagen NUI Nuisance dust 2B Possibly carcinogenic to humans BLO Blood COR Corrosive KID Kidney NTO No Target Organs SOM Evidence of some carcinogenicity

#### 4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm. Obtain medical attention. Does not apply Wash with soap and water. Flush at least 15 minutes with water. Obtain medical attention. Inhalation: Skin Contact: Eye Contact:

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Product Name: Item No.:

Loctite(R) Flexible Anaerobic Gasket Flange Slnt 17430

FIRE FIGHTING MEASURES

Flash Point:

More than 200°F

Method: Tag Closed Cup

Recommended Extinguishing Agents: Special Firefighting Procedures:

Carbon dioxide, foam, dry chemical

Not available

Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or

Explosion Hazards:

None

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Soak up with an inert absorbent. Store filled, closed container until disposal. Store in partly

HANDLING AND STORAGE

Safe Storage: (Contact Loctite Customer Handling:

Store below 100°F Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes.

8.\_\_\_ EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Safety glasses or goggles. Nitrile or neoprene gloves. Does not apply Not available

Skin: Ventilation: Respiratory

See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Blue gel Mild

Appearance: Odor: Boiling Point:

More than 300°F

Does not apply Slight 1.020

Boiling Point:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Not available Less than 5mm Not available

Not available

10. STABILITY AND REACTIVITY

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:

Stable Will not occur None

Not available

Hazardous Decomposition Products (non-thermal):

None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of

Incinerate following EPA and local regulations.

disposal: EPA Hazardous Waste Number

NH - Not a RCRA Hazardous Waste Material

TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or

Division:

Unrestricted Unrestricted

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Product Name: Item No.:

Loctite(R) Flexible Anaerobic Gasket Flange Slnt 17430

Identification Number: Marine Pollutant:

None None

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

11

15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Traces of ethylene oxide

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

Estimated HMIS(R) Code:

Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection:

See Section 8.

Does not apply

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trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By: Title: Company: (24hr.) Phone: Revision Date:

Louis Fabrizio
Regulatory Affairs Specialist
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
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January 27, 1999 Revision: 0030

Received 1/24/

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MATERIAL SAFETY DATA SHEET

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Loctite(R) ODC-Free Cleaner & Degreaser 20260

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TMC 12826/0

Item No.:

20260

Product Type:

Hydrocarbon blend

COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients

CAS No.

Hydrotreated heavy naphtha

64742-48-9

75-85

d-Limonene

5989-27-5

15-25

Ingredients which have exposure limits

Exposure Limits (TWA)

**ACGIH** 

OSHA

OTHER

Ingredients

(TLV)

(PEL)

Hydrotreated heavy naphtha d-Limonene

5mg/m3 TWA mist 5mg/m3 TWA mist 400 ppm None

None

30 ppm

Exposure Limits (STEL) Ingredients

ACGIH (TLV)

OSHA (PEL)

Hydrotreated heavy naphtha

10 mg/m3 mist None

3. HAZARDS IDENTIFICATION

Toxicity:

High concentrations of vapors may be mildly irritating to lungs and mucous membranes of the

nose and throat.

Vapors will irritate and may harm eyes.

Contact may defat skin.

Ingestion causes irritation and effects similar to inhalation. If swallowed, may be aspirated into the lungs resulting in inflamation and possible

fluid accumulation.

Primary Routes of Entry:

Signs and Symptoms

of Exposure:

Inhalation, eye and skin contact.

Inhalation: dizziness, excitation, headache, drowsiness, incoordination, and anesthesia. Eye contact: tearing, swelling, irritation. Skin contact: irritation, reddening, swelling,

rash.

Ingestion: irritation, dizziness, excitation, drowsiness, incoordination, anesthesia, and

headache.

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MATERIAL SAFETY DATA SHEET

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Item No.:

20260

3. HAZARDS IDENTIFICATION

(continued)

Existing Conditions

Aggravated by Exposure: Skin disorders, asthma-like disorders

Literature Referenced Carcinogen

Ingredients Target Organ and Other Health Effects NTP IARC OSHA

Hydrotreated heavy naphtha NTO NO NO NO d-Limonene IRR NO N/A NO

Abbreviations

N/A Not Applicable IRR Irritant

NTO No Target Organs

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting or give anything by mouth

because this material can enter the lungs and cause severe lung damage. Get medical attention

immediately.

Inhalation: Remove to fresh air. If victim experiences

continued breathing difficulties, administer oxygen until medical assistance can be rendered. If breathing stops, begin artificial respiration

and obtain immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated

clothing Obtain medical attention if irritation

persists.

Eye Contact: Immediately flush at least 15 minutes with water.

Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: 120°F Method: Tag Closed Cup

Recommended

Item No.:

Unusual Fire or

Extinguishing Agents: Carbon dioxide, foam, dry chemical (B-C)

Special Firefighting

Trocedures: The use of self contained breathing apparatus is

recommended for fire fighters. Water may be unsuitable as an extingushing media, but helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling

purposes.

20260

Hazardous Products formed

by Fire or Thermal Decomp Oxides of carbon.

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MATERIAL SAFETY DATA SHEET Page 03 of 06

5. FIRE FIGHTING MEASURES (continued)

Explosion Hazards: Vapors are heavier than air and may travel along

the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition

sources at locations distant from material

handling point. Never use welding or cutting torch on or near drums (even empty) because product or residues can ignite explosively. Keep work areas free of hot metal surfaces and other sources of ignition.

Explosive Limits:

(% by volume in air)Lower 0.7% (% by volume in air)Upper 4.4%

#### 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Spilled liquid is combustible and can be ignited by heat, sparks, flames, or other sources of ignition. REmove all sources of ignition. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material

handling point.

Keep sources of ignition and hot metal surfaces isolated from the spill. Maintain adequate ventilation. Do not allow liquid to enter sewers, storm drains, other unauthorized treatment facilities, and natural waterways. Use explosion-proof equipment. Absorb spilled liquid with inert material and place in a closed chemical waste container until disposal.

#### 7. HANDLING AND STORAGE

Safe Storage:

Do not store near fire, sparks, or flame. Do not

puncture or incinerate container.

(Contact Loctite Customer

Handling:

Service 1-800-243-4874 for shelf life information)

Use with adequate ventilation.

Avoid prolonged skin contact. Keep away from eyes. Avoid breathing vapors. Do not use near heat, sparks, open flame or other sources of ignition.

Keep out of the reach of children.

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#### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Safety glasses, chemical goggles, and/or face

shields.

Skin:

Impermeable nitrile gloves and aprons.

Ventilation:

General mechanical ventilation may be sufficient to keep vapor/mist concentrations within specified time-weighted TLV ranges. If general ventilation proves inadequate to maintain safe vapor/mist concentrations, supplemental local exhaust may be

required.

Respiratory

NIOSH approved respirator if ventilation is

inadequate.

See Section 2 for Exposure Limits.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Slightly hazy liquid

Odor:

Boiling Point:

Citrus 310°F-410°F

pH: Solubility in Water: Does not apply

Specific Gravity

Insoluble 0.72 - 0.78

Volatile Organic Compound

(EPA Method 24)

100%; 720-780 grams per liter

Vapor Pressure: Vapor Density:

20.8 mm Hg at 72.5°F Heavier than air

Evaporation Rate

(Ether = 1)

Not available

#### STABILITY AND REACTIVITY

Stability:

Stable

Hazardous Polymerization: Will not occur

Incompatibility:

Strong oxidizing agents, strong acids or bases,

selected amines.

Conditions to Avoid:

Do not use or store near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F may cause container to

burst.

Hazardous Decomposition

Products (non-thermal):

Hydrocarbons

#### TOXICOLOGICAL INFORMATION

See Section 3.

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20260

### 12. ECOLOGICAL INFORMATION

No data available

#### DISPOSAL CONSIDERATIONS

Recommended methods of

disposal:

Incinerate following EPA and local regulations.

EPA Hazardous Waste

Number

D001 - Hazardous waste per 40CFR 261.21

#### TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name:

Unrestricted (Not more than 450 liters);

Petroleum distillates, n.o.s.

(More than 450 liters)

Hazard Class or

Division:

Unrestricted (Not more than 450 liters); Combustible liquid (More than 450 liters)

Identification Number: None (Not more than 450 liters);

UN 1268 (More than 450 liters)

Marine Pollutant: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 500 ml);

Petroleum distillates, n.o.s. (More than 500 ml)

Class or Division:

Class 9 (Not more than 500 ml)

Class 3, Packing Group III (More than 500 ml)

UN or ID Number:

ID 8000 (Not more than 500 ml);

UN 1268 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65:

Not available

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: Fire Hazard: Reactivity Hazard: O

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1 Flammability Hazard: 2 Reactivity Hazards: n

Personal Protection: See Section 8.

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16. OTHER INFORMATION

(continued)

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Prepared By:

Stephen Repetto

Title: Company: Research Chemist- Safety, Health & Regulatory Affairs Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067

(24hr.) Phone: (860) 571-5100

Revision Date:

February 17, 1999

Revision: 0009

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## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Tak Pak(R) 7452 Accelerator Metered Mist 18637

Item No.: Product Type:

Aerosol accelerator

#### COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                    | CAS No.                                  | 8                                |
|------------------------------------------------|------------------------------------------|----------------------------------|
| ACETONE ISOBUTANE PROPANE N.N-Dialkyltoluidine | 67-64-1<br>75-28-5<br>74-98-6<br>99-97-8 | 70-75<br>15-20<br>10-15<br>0 1-1 |

Ingredients which have exposure limits

| Exposure Limits (TWA)<br>Ingredients  | ACGIH<br>(TLV)           | OSHA<br>(PEL)                        | OTHER |
|---------------------------------------|--------------------------|--------------------------------------|-------|
| ACETONE                               | 750 ppm TWA              | 750 ppm TWA                          | None  |
| PROPANE                               | 1780 mg/m3<br>Asphyxiant | 1800 mg/m3<br>1000 ppm<br>1800 mg/m3 | None  |
| Exposure Limits (STEL)<br>Ingredients | ACGIH<br>(TLV)           | OSHA<br>(PEL)                        |       |
| ACETONE                               | 1000 ppm<br>2380 mg/m3   | 1000 ppm<br>2400 mg/m3               |       |

### HAZARDS IDENTIFICATION

Toxicity:

Possible eye irritant.
Moderately toxic by ingestion.
Estimated dermal LD50 more than 2000 mg/kg.
Inhalation, ingestion, contact. Primary Routes of Entry:

Signs and symptoms of Exposure:

Vapors irritate eyes, nose and throat. Liquid is an eye irritant and may irritate skin.

Existing Conditions
Aggravated by Exposure:

None known

| Ingredients                                             | Literature Referenced<br>Target Organ and Other Health Effects | Carcinogen<br>NTP IARC OSHA      |
|---------------------------------------------------------|----------------------------------------------------------------|----------------------------------|
| ACETONE<br>ISOBUTANE<br>PROPANE<br>N,N-Dialkyltoluidine | BLO CNS IRR<br>CAR CNS LUN<br>CAR CNS IRR<br>MUT               | NO NO NO<br>NO NO NO<br>NO NO NO |

## Abbreviations

CAR Cardiac IRR Irritant MUT Mutagen BLO Blood CNS Central nervous system

## FIRST AID MEASURES

Give water to dilute. Do not induce vomiting. Keep individual calm. Obtain medical attention, Remove to fresh air. If symptoms persist, obtain Ingestion: Inhalation:

in Contact:
 ye Contact:

medical attention, wash with soap and water, Flush with water for at least 15 minutes. Obtain

medical attention.

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MATERIAL SAFETY DATA SHEET

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roduct Name: cem No:

Tak Pak(R) 7452 Accelerator Metered Mist 18637

#### 5 FIRE FIGHTING MEASURES

Flash Point:

1.4'F (Base) -165'F (Propellants) Method: Tag Closed Cup Open Cup Method:

Recommended

Extinguishing Agents:

Carbon dioxide, foam, dry chemical

Special Firefighting Procedures:

Not available Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or
Explosion Hazards: Cans may explode in fires

Cans may explode in fires.

Explosive Limits: (% by volume in air)Lower

N, N-Dialkyltoluidine

1.2% Acetone Isobutane

(% by volume in air)Upper

2.18 Propane 78 N,N-Dialkyltoluidine 138 Acetone 8.48 Isobutane

#### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Avoid flame, sparks and other sources of ignition. Maintain adequate ventilation. Soak up in an inert absorbent. Store in a closed container until disposal.

#### 7 HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer Handling:

Store away from flame, sparks and other sources of ignition. Store below 100'F. Service 1-800-243-4874 for shelf Life information) Avoid prolonged breathing of fumes. Avoid skin or eye contact. Do not use near heat, sparks, or open flame.

#### 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Ventilation: Respiratory

Safety glasses or goggles. Rubber or plastic gloves. Sufficient to maintain vapor concentration

below TLV.

Not available

See Section 2 for Exposure Limits.

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear to amber liquid

Odor: Boiling Point:

Acetone 135'F (Base only) Does not apply Miscible

Solubility in Water:

0.7926 (Base only)

Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate

(Ether = 1)

1.02%;808 grams per liter of material (Base only) Approximately 180mm at 68 F (Base only) Approximately 2 (Base only)

1.9 (Base only)

## STABILITY AND REACTIVITY

Stable

stability: Hazardous Polymerization: Incompatibility:

Will not occur Strong oxidizers Not available

Conditions to Avoid: Hazardous Decomposition Products (non-thermal):

None

MOR 000969

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910

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MATERIAL SAFETY DATA SHEET

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8/19/97 13:09:10

ISSUED

roduct Name: :em No::

Tak Pak(R) 7452 Accelerator Metered Mist 18637

## TOXICOLOGICAL INFORMATION

See Section 3.

#### ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Incinerate following EPA and local regulations. Do not incinerate cans still under pressure.

EPA Hazardous Waste Number

D001 - Hazardous waste per 40CFR 261.21

## 14 TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport Proper Shipping Name: Hazard Class or

Consumer Commodity

Division: ORM-D Identification Number: Marine Pollutant: None None

IATA

Aerosols, flammable, n.o.s. Division 2.1 UN 1950 Proper Shipping Name: Class or Division: UN or ID Number:

2

4 Õ

#### 15 REGULATORY INFORMATION

A Proposition 65:

This product does not contain any chemicals regulated by California Proposition 65.

#### OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: Fire Hazard: Reactivity Hazard:

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

2 Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection: 4 Õ

See Section 8.

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Stephen Repetto

Prepared By: Title: Research Chemist, Environmental Health & Safety Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 (860) 571-5100

Company: (24hr.) Phone: Revision Date:

January 22. 1996 Revision: 0012

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910

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> Page 1 of 3

#### PRODUCT IDENTIFICATION

Product Name: Item No :
Product Type:

Removable Threadlocker 242

24231

Anaerobic

#### II. COMPOSITION

| Ingredients CA                                                                                                                            | No. &                                                                                                                         |   |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---|
| Polyglycol oleate 900 SACCHARIN 81: CUMENE HYDROPEROXIDE* 80: METHYL ALCOHOL* 67: SILICA, AMORPHOUS TREATED 11: N,N-Dialkyltoluidines 61: | 352-47-5<br>04-96-0<br>-07-2<br>-15-9<br>-56-1<br>2945-52-5<br>3-48-9<br>163-67-7<br>60-6<br>25-3<br>1-3<br>1-3<br>1-3<br>1-3 | Ō |

This component is listed as a SARA Section 313 Toxic Chemical.

## III CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure:
Vapor Density:
Solubility in Water:
Specific Gravity:
Boiling Point:
Volatile Organic Compound (EPA Method 24) Evaporation Rate

Less than 5mm at 80'F Not available Şlight 1.1 at 75 F More than 300 F

13 3%; 146 grams per liter

Not available Does not apply Bluo liquid

TODIETEOGE Odor:

(Ether = 1)

Mild

## IV FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point: Estimated NFPA Code: Health Hazard: Fire Hazard: Reactivity Hazard: Specific Hazard: Estimated HMIS Code:

More than 200 F

Method: Tag Closed Cup

1 ļ

Does not apply

La Carrie La Line Carrie

Health Hazard: Flammability Hazard: Reactivity Hazard: Personal Protection:

See Section X.

NOV 1 7 1995

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Recommended

Not available Not available

THE MOREY CORP

Extinguishing Agents: Hazardous Products Formed by Fire or Thermal Decomp Irritating organic vapors; oxides of carbon. Unusual Fire or

Carbon dioxide, foam, dry chemical

Explosion Hazards: Compressed Gases: Pressure at Room Temp.: None None

Does not apply

## SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak:

Store in a partly Soak up in an inert absorbent. filled, closed container until disposal.

commended methods of disposal:

Incinerate following EPA and local regulations

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11/16/95 9:34:11 FAX: (860) 571-5465

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Page

ISSUED

MATERIAL SAFETY DATA SHEET

"roduct Name: :em No.:

Removable Threadlocker 242 24231

<u>STORAGE AND HANDLING PROCEDURES</u>

Safe Storage: (Contact Loctite Customer Handling:

Store below 100 F. Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes

YII. SHIPPING REGULATIONS

Domestic Ground Transport Proper Shipping Name: Hazard Class or

Division:

Identification Number: Marine Pollutant:

Proper Shipping Name: Class or Division: UN or ID Number:

None Unrestricted

Unrestricted

Unrestricted

Unrestricted None

None

VIII. REACTIVITY DATA

Stability:

Hazardous Polymerization: Hazardous Decomposition

Products (non-thermal): Incompatability:

Stable

Will not occur.

None None

IX EMERGENCY TREATMENT PROCEDURES

Ingestion:

rhalation:.. Eye Contact:

Do not induce vomiting. Keep individual calm. Obtain medical attention

DOSA UNT DDD Y, The scap and water Flush at least 15 minutes with water medical attention. Obtain

PERSONAL PROTECTION

Eyes: Skin:

Ventilation:

Safety glasses or goggles, Neoprene, rubber, or buty1 rubber gloves. Does not apply

XI HEALTH HAZARD DATA

Toxicity:

NCV 1 / 1995

Primary Routes of Entry: Signs and Symptoms

of Exposure:

Mild eye irritant Oral LD50 more than 10000 mg/kg. Dermal LD50 more than 5000 mg/kg. Eye, skin contact.

THE MOREY CORP. May cause dermatitis on prolonged sensitive individuals

Existing Conditions

Aggravated by Exposure:

None known

Exposure Limits (TWA)

Ingredients

ACGIH (TLV)

OSHA (PEL) OTHER

La les Cartes & Charles

METHYL ALCOHOL

SILICA, AMORPHOUS TREATED

TITANIUM DIOXIDE

200ppm TWA skin 200ppm TWA skin None 262 mg/m3 skin 262 mg/m3 skin 10 mg/m3 TWA 6 mg/m3 TWA 3 mg

3 mg/m3 TWA

10 mg/m3 dust

15 mg/m3 dust

resp. dust None

5 mg/m3 resp

Exposure Limits (STEL)

ngredients

ACGIH (TLV)

OSHA (PEL)

METHYL ALCOHOL

250 ppm skin 328 mg/m3 skin 250 ppm skin 325 mg/m3 skin

Ingredients for which no Exposure Limits have been established are not listed above.

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MATERIAL SAFETY DATA SHEET

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"roduct Name: em No:

Removable Threadlocker 242 24231

| XI HEALTH HAZARD | DATA |
|------------------|------|
|------------------|------|

(continued)

| Ingredients                                                                                                                                                                 | Literature Referenced                  | Caro                              | inoge                                   | en                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------|-----------------------------------------|----------------------------|
|                                                                                                                                                                             | Target Organ and Other Health Effects  | NTP                               | IARC                                    | OSHA                       |
| Polyglycol dimethacryla<br>Polyglycol oleate<br>SACCHARIN<br>CUMENE HYDROPEROXIDE<br>METHYL ALCOHOL<br>SILICA, AMORPHOUS TREAT<br>N,N-Dialkyltoluidines<br>TITANIUM DIOXIDE | ALG CNS COR IRR MUT<br>EYE IRR MET NER | no<br>yes<br>no<br>no<br>no<br>no | NO<br>NO<br>2B<br>NO<br>NO<br>N/A<br>NO | NO<br>NO<br>NO<br>NO<br>NO |

## Abbreviations

N/A Not Applicable ALG Allergen COR Corrosive IRR Irritant MUT Mutagen NUI Nuisance dust

2B Possibly carcinogenic to humans CNS Central nervous system EYE Eyes MET Metabolic NER Nervous System

## XII PREPARATION INFORMATION

Prepared By: Title: Company: (24hr.) Phone: Pevision Date: Stephen Repetto
Research Chemist, Environmental Health & Safety
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
January 03. 1995 Revision: 0028

- - door & live to live to

NOV 17 1995

THE MOREY CORP

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910

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MATERIAL SAFETY DATA SHEET

571-5465 FAX: (860)

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11/16/95 9:34:15

PRODUCT IDENTIFICATION

IHREADLOCKER

Product Name: Item No.:
Product Type: Retaining Compound 620 High Temperature 62040

Anaerobic

COMPOSITION

| Ingredients                                                                                                                                                                                                    | CAS No.                                                                                                                   | Q <sub>O</sub>                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Aromatic dimethacrylate ester Maleimide resin CUMENE HYDROPEROXIDE* Hydroxyalkyl methacrylate METHYL ALCOHOL* SILICA, AMORPHOUS TREATED 1-Acetyl-2-phenylhydrazine N,N-Dialkyltoluidines MALEIC ACID SACCHARIN | 24448-20-2<br>3006-93-7<br>80-15-9<br>27813-02-1<br>67-56-1<br>112945-52-5<br>114-83-0<br>613-48-9<br>110-16-7<br>81-07-2 | 75-80<br>10-15<br>1-3<br>1-3<br>1-3<br>0.1-1<br>0.1-1<br>0.1-1 |
|                                                                                                                                                                                                                | · ·                                                                                                                       |                                                                |

\* This component is listed as a SARA Section 313 Toxic Chemical.

## CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: Vapor Density: Solubility in Water: Specific Gravity: Less than 5mm at 80 F Not available Slight 1.1 at 80 F Boiling Point:
Volatile Organic Compound
(NDL M.L.L...) (1) More than 300'F 0.30, 01.3 **......** 1:1.... 'aporation Rate (Ether = 1)Not available Does not apply :Hq Green liquid Appearance: Mild Odor:

#### IV FLAMMABILITY AND EXPLOSIVE PROPERTIES

More than 200'F Method: Tag Closed Cup Flash Point: Estimated NFPA Code: Health Hazard: Fire Hazard: Reactivity Hazard: Specific Hazard:
Estimated HMIS Code:
Health Hazard:
Flammability Hazard: Does not apply - alm & hard & land Reactivity Hazard: Personal Protection: Explosive Limits: NOV 17 1995 See Section X. (% by volume in air)Lower (% by volume in air)Upper THE MOREY CORP 6% Methanol 36% Methanol

Recommended Extinguishing Agents: Hazardous Products Formed Carbon dioxide, foam, dry chemical

by Fire or Thermal Decomp Irritating organic vapors Unusual Fire or

Explosion Hazards: Compressed Gases: None

Pressure at Room Temp.: Does not apply

## SPILL OR LEAK AND DISPOSAL PROCEDURES

fteps to be taken in case
f spill or leak:

Soak up in an inert absorbent. Store in filled, closed container until disposal. Store in partly

Recommended methods of disposal: Incinerate following EPA and local regulations

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<u>MATERIAL SAFETY DATA SHEET</u>

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571-5465

ISSUED

FAX: (860)

roduct Name: :em No.:

Retaining Compound 620 High Temperature

62040

STORAGE AND HANDLING PROCEDURES

Safe Storage: (Contact Loctite Customer Handling:

Store below 100 F. Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes.

SHIPPING REGULATIONS

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Hazard Class or

Division:

Identification Number:

Marine Pollutant:

IATA

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

Will not occur.

Unrestricted

Unrestricted

None

Stable

None

None

VIII REACTIVITY DATA

Stability:

Hazardous Polymerization: Hazardous Decomposition Products (non-thermal): Incompatability:

None None

IX EMERGENCY TREATMENT PROCEDURES

Ingestion:

nhalation:

Skin Contact: Eye Contact:

Do not induce vomiting Obtain medical attention. Keep individual calm.

Does not apply

Wash with soap and water. Flush at least 15 minutes with water.

medical attention.

PERSONAL PROTECTION

Eyes: Skin:

Ventilation:

Safety glasses or goggles. Rubber or plastic gloves.

Does not apply

HEALTH HAZARD DATA XI.

Toxicity:

Eye irritant,

Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg.

Primary Routes of Entry: None known

Signs and Symptoms of Exposure:

Existing Conditions Aggravated by Exposure:

May cause dermatitis on prolonged douthout 1936 sensitive individuals.

Malemide resin: dermatitis

THE MOREY CARP

OTHER

Exposure Limits (TWA) Ingredients

ACGIH OSHA (TLV) (PEL)

3 ppm ceiling None None 200ppm TWA skin 200ppm TWA skin None 262 mg/m3 skin 262 mg/m3 skin 10 mg/m3 TWA 6 mg/m3 TWA 3 mg

SILICA, AMORPHOUS TREATED

Hydroxyalkyl methacrylate

3 mg/m3 TWA resp. dust

Exposure Limits (STEL)

Ingredients

ACGIH (TLV)

OSHA (PEL)

..ETHYL ALCOHOL

METHYL ALCOHOL

250 ppm skin 328 mg/m3 skin 250 ppm skin 325 mg/m3 skin

Ingredients for which no Exposure Limits have been established are not listed above

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MATERIAL SAFETY DATA SHEET

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FAX: (860) 571-5465

ISSUED

Product Name: .em No.:

Retaining Compound 620 High Temperature 62040

XI HEALTH HAZARD DATA

(continued)

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| Ingredients                                                                                                                                                                                     | Literature Referenced<br>Target Organ and Other Health Effects |                                               | cinog<br>IARC                                      | en<br>OSHA                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------|----------------------------------------------|
| Aromatic dimethacrylate Maleimide resin CUMENE HYDROPEROXIDE Hydroxyalkyl methacryla METHYL ALCOHOL SILICA, AMORPHOUS TREAT 1-Acetyl-2-phenylhydraz N,N-Dialkyltoluidines MALEIC ACID SACCHARIN | NO DATA ALG CNS COR IRR MUT ALG IRR EYE IRR MET NER ED NUI     | NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>YES | NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>2B | NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO |

## Abbreviations

N/A Not Applicable ALG Allergen COR Corrosive IRR Irritant MUT Mutagen NUI Nuisance dust

2B Possibly carcinogenic to humans CNS Central nervous system EYE Eyes MET Metabolic NER Nervous System

#### XII PREPARATION INFORMATION

Prepared By: Title: Company:
4hr.) Phone:
.evision Date: Stephen Repetto
Research Chemist, Environmental Health & Safety
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100 January 03. 1995 Revision: 0027

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NOV 17 1995

THE MUREY CORP

Rer. 8/10/00 Tmc # 128 4005

LOCTITE CORPORATION

07/23/00

ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Page 01 of 04

290 Threadlocker Wicking Grade 29005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.:

29005

Product Type:

Anaerobic

2. COMPOSITION, INFORMATION ON INGREDIENTS

| CAS No.    | *                                |
|------------|----------------------------------|
| 25852-47-5 | 90-95                            |
| 80-15-9    | 3-5                              |
| 81-07-2    | 1-3                              |
| 613-48-9   | 0.1-1                            |
|            | 25852-47-5<br>80-15-9<br>81-07-2 |

\* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA)<br>Ingredients | ACGIH<br>(TLV) | OSHA<br>(PEL) | OTHER                              |
|--------------------------------------|----------------|---------------|------------------------------------|
| CUMENE HYDROPEROXIDE                 | None           | None          | <pre>lppm(6mg/m3) Skin(WEEL)</pre> |
| Exposure Limits (STEL) Ingredients   | ACGIH<br>(TLV) | OSHA<br>(PEL) |                                    |

## 3. HAZARDS IDENTIFICATION

Toxicity:

Estimated oral LD50 more than 10000 mg/kg. Estimated dermal LD50 more than 5000 mg/kg.

Primary Routes of Entry: None known

Signs and Symptoms

of Exposure:

May cause dermatitis on prolonged contact in

sensitive individuals.

Existing Conditions

Aggravated by Exposure:

None known

| Ingredients                                                                  | Literature Referenced<br>Target Organ and Other Health Effects |                | inog<br>IARC         | en<br>OSHA     |
|------------------------------------------------------------------------------|----------------------------------------------------------------|----------------|----------------------|----------------|
| Polyglycol dimethacryla CUMENE HYDROPEROXIDE SACCHARIN N,N-Dialkyltoluidines | te ALG IRR ALG CNS COR IRR MUT NTO NTO                         | NO<br>NO<br>NO | NO<br>NO<br>2B<br>NO | ио<br>ио<br>ио |

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07/23/00

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MATERIAL SAFETY DATA SHEET

Page 02 of 04

Item No.:

29005

3. HAZARDS IDENTIFICATION

(continued)

Abbreviations

2B Possibly carcinogenic to humans

CNS Central nervous system

IRR Irritant

ALG Allergen COR Corrosive MUT Mutagen

NTO No Target Organs

FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm.

Obtain medical attention.

Inhalation:

Remove to fresh air. If symptoms persist, obtain

medical attention.

Skin Contact:

Wash with soap and water.

Eye Contact:

Flush at least 15 minutes with water.

5. FIRE FIGHTING MEASURES

Flash Point:

More than 200°F

Method: Tag Closed Cup

Recommended

Extinguishing Agents:

Carbon dioxide, foam, dry chemical

Special Firefighting

Procedures:

Not available

Hazardous Products formed

by Fire or Thermal Decomp Irritating organic vapors

Unusual Fire or

Explosion Hazards:

None

Explosive Limits:

(% by volume in air) Lower Not available (% by volume in air) Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak:

Soak up with an inert absorbent. Store in partly

filled, closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage:

Store below 100°F

(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)

Handling:

Avoid prolonged skin contact. Keep away from eyes.

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07/23/00

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MATERIAL SAFETY DATA SHEET

Page 03 of 04

Item No.:

29005

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Safety glasses or goggles.

Skin:

Neoprene, rubber, or butyl rubber gloves.

Ventilation:

Use adequate ventilation.

Respiratory

Not available

See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Green liquid

Odor:

Mild

Boiling Point:

More than 300°F Does not apply

pH:

Solubility in Water:

Slight 1.07 at 80°F

Specific Gravity

Volatile Organic Compound

(EPA Method 24)

12.6%; 135 grams per liter Less than 5mm at 80°F

Vapor Pressure: Vapor Density:

Not available

Evaporation Rate

(Ether = 1)

Not available

#### STABILITY AND REACTIVITY

Stability:

Stable

Hazardous Polymerization: Will not occur

Incompatibility:

None

Conditions to Avoid:

Not available

Hazardous Decomposition

Products (non-thermal):

None

#### 11. TOXICOLOGICAL INFORMATION

See Section 3.

#### 12. ECOLOGICAL INFORMATION

No data available

#### 13. DISPOSAL CONSIDERATIONS

Recommended methods of

disposal:

Incinerate following EPA and local regulations.

EPA Hazardous Waste

Number

NH - Not a RCRA Hazardous Waste Material

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MATERIAL SAFETY DATA SHEET

Page 04 of 04

Item No.:

29005

#### 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name:

Unrestricted

Hazard Class or

Division:

Unrestricted

Identification Number: None Marine Pollutant:

None

IATA

Proper Shipping Name: Class or Division:

Unrestricted Unrestricted

UN or ID Number:

None

### 15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to

the State of California to cause cancer and birth defects or other reproductive

(ppb levels of Arsenic, Cd, Pb, Ni),

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard: 1

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1 Flammability Hazard: 1 Reactivity Hazards: 1

Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By:

Stephen Repetto

Research Chemist; Safety, Health & Regulatory Affairs Title: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 Company:

(24hr.) Phone: (860) 571-5100

Revision Date: January 27, 1999 Revision: 0027

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LOCTITE CURPORATION

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ISSUED

FAX: (860)

3/12/97 19:01:11 571-5465

MATERIAL SAFETY DATA SHEET

Page 1 of 3

## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Item No.:

3201 Medical Device Adhesive Light Curing

<u> 19727</u>

Product Type:

UV Adhesive

# 2. COMPOSITION, INFORMATION ON INGREDIENTS

TMC# 1143919. RT# 114008

4-2-97

Ingredients CAS No. ç Aliphatic urethane acrylate oligomer
High boiling acrylate monomer
Hydroxyalkyl methacrylate
Phosphine compound
Photoinitiator 35-40 Proprietary Proprietary 868-77-9 35-40 15-20 Proprietary 24650-42-8 1-3 1-3 SILICA, AMDRPHOUS CRYSTALLINE-FREE AMORPHOUS, FUMED,

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients

Substituted silane

**ACGIH** (TLV)

DSHA (PEL)

None

OTHER

Hydroxyalky! methacrylate SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE

None 10 mg/m3 TWA

112945-52-5

Proprietary

5 mg/m3 TWA

1-3 1-3

3 ppm ceiling

3 mg/m3 TWA resp. dust

Fxposure Limits (STEL) gredients

**ACGIH** (TLV)

OSHA (PEL)

#### 3. HAZARDS IDENTIFICATION

Toxicity:

May be harmful if swallowed. Eye, skin, and inhalation irritant. Possible sensitizer.

Primary Routes of Entry:

Dermai, eye contact, skin absorbtion.

Signs and symptoms of Exposure:

Irritation of eyes, skin, or respiratory tract. This irritation may be delayed up to two days. Ingestion may cause nauses, abdominal discomfort, vomiting, or disrrhes.

Existing Conditions Aggravated by Exposure:

Eczema and other skin allergies, asthma and other respiratory disorders; systemic diseases.

Ingredients

Literature Referenced Target Organ and Other Health Effects Carcinogen NTP IARC OSHA

Aliphatic urethane acrylate oligomer High boiling acrylate monomer Hydroxyalkyl methacrylate Phosphine compound Photoinitiator SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE

No Data ALG IRR No Data No Date

NO NO NO ND ND ND NO NO NO NÖ NO ND NO NO NO

Substituted silane

NUI IRR

NO NO

Abbreviations

A Not Applicable AR Irritant

ALG Allergen NUI Nuisance dust

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06057-3910 EMERGENCY PHONE: (860) 571-5100

ISSUED

Tag Closed Cup

3/12/97 19:01:11 FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Page 2 of 3

Product Name: Item No.:

3201 Medical Device Adhesive Light Curing 19727

#### \_ FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation:

Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Eye Contact:

Wash with spap and water. Flush at least 15 minutes with water.

medical attention.

## FIRE FIGHTING MEASURES

Flash Point: Recommended

More than 200 F Method:

Extinguishing Agents: Carbon dioxide, foam, dry chem Hazardous Products formed by Fire or Thermal Decomp Oxides of carbon and nitrogen. Unusual Fire or

Carbon dioxide, foam, dry chemical

Explosion Hazards:

Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupturing of storage containers.

Explosive Limits: (% by volume in air}Lower

Not available (% by volume in air)Upper Not available

## ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Spontaneous hazardous polymerization may occur. Eliminate sources of ignition. Use eye and skin protection. Maintain adequate ventilation. Soak up with an inert absorbent. Store in a half filled, closed container until disposal.

#### 7. HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer

Handling:

Store between 50°F and 90°F.
Service 1-800-243-4874 for shelf Life information)
Avoid eye and skin contact. Avoid breathing vapors. Do not use near sources of ignition.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Chemical splash safety goggles conforming to ANSI 287.1 - 1990.

Skin: Ventilation: Neoprene gloves. Sufficient to maintain vapor concentration

See Section 2 for Exposure Limits.

#### PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Pale yellow liquid

Odor: Boiling Point:

More than 200 F Does not apply

Low 1.09

Mild

pH: Solubility in Water: Specific Gravity Volatile Organic Compound

55.9%; 509 grams per liter Not available

(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

More than 1

Not available

MOR 000982

## 10. STABILITY AND REACTIVITY

Stability:

Stable

Hazardous Polymerization:

Will not occur

Incompatibility:

Strong acids, bases, strong oxidizers, peroxides, copper alloys, carbon steel, rust, iron, and other

4 03-12-97 07:06 pm From: Loctite Corporation at @ 0605712595 1984 of 985

LOCTITE CORPORATION ISSUED

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100 3/12/97 19:01:11 FAX: (850) 571-5465

3 of MATERIAL SAFETY DATA SHEET Page

3201 Medical Device Adhesive Light Curing 19727 Product Name:

Item No.:

(continued) 10. STABILITY AND REACTIVITY

polymerization initiators.

Hazardous Decomposition Products (non-thermal):

11. TOXICOLOGICAL INFORMATION

See Section 3.

ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of

Incinerate following EPA and local regulations. disposal: EPA Hazardous Waste

NH - Not a RCRA Hazardous Waste Material Number

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport Proper Shipping Name: Unrestricted Hazard Class or

Division: Identification Number: Marine Pollutant: Unrestricted None

None

1...A

Proper Shipping Name: Class or Division: UN or ID Number: Unrestricted Unrestricted None

15. REGULATORY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive CA Proposition 65:

harm. Ethylene Oxide, Toluene

DTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2 Fire Hazard: Reactivity Hazard: Specific Hazard: Does not apply

Estimated HMIS(R) Code: Health Hazard:

2 Flammability Hazard: Reactivity Hazards: Personal Protection: 1 See Section 8.

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn. NFPA is a registered

HMIS is a registered Prepared By:

Stephen Repetto
Research Chemist, Health and Safety
Lactite Corp.: 1001 Tr Br Cr, Rocky Hill CT 06067 Title: Company: Thr. > Phone:

Revision: 0005 .\_vision Date: January 22, 1996

From: Loctite Corporation at @ 8605712595

₱ 85-14-98 11:55 am P 882 of 887

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FRX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Page 1 of 3

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Item No.

LiteTak(R) 375 Surface Curing UV Adhesive

Product Type:

## COMPOSITION. INFORMATION ON INGREDIENTS

| Ingredients                                                                                              | CHS No.                                         | %                             |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|
| Polyurethane acrylate resin N-Vinyl-2-pyrrolidinone Acrylate ester Photoinitiator STITED OURDBURGE SIMES | 116958-43-1<br>88-12-0<br>7328-17-8<br>947-19-3 | 50-55<br>25-30<br>5-10<br>3-5 |
| SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE                                                               | 112945-52-5                                     | 1-3                           |

Ingredients which have exposure limits

| Exposure Limits (TWA)                                                    | ACGIH        | OSHA        | OTHER                     |
|--------------------------------------------------------------------------|--------------|-------------|---------------------------|
| Ingredients                                                              | (TLV)        | (PEL)       |                           |
| N-Vinyl-2-pyrrolidinone<br>SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE | None         | None        | 0.1 ppm                   |
|                                                                          | 10 mg/m3 TWA | ნ mg/m3 TWA | 3 mg/m3 TWA<br>resp. dust |
| Exposure Limits (STEL)                                                   | ACGIH        | OSHA        |                           |
| Ingredients                                                              | (TLV)        | (PEL)       |                           |

## 3. HAZARDS IDENTIFICATION

Toxicity:

Severe eye irritant. Skin, inhalation, and ingestion irritant. Possible sensitizer. Toxio by ingestion and inhalation. N-Vinyl-2-pyrrolidinone: Absorbtion or contact.

Primary Routes of Entry: Signs and Symptoms of Exposure:

Skin contact: May cause allergenic response in sensitive individuals; nausea, vomiting,

convulsions.
Inhalation of high concentrations: Headache, nausea, dizziness, narcosis, pallor, lack of

coordination, stupor. Ingestion: Nausea, vomiting, diarrhea. Eye contact: Burning, stinging, watering, inflammation.

**Existing Conditions** Aggravated by Exposure:

None known

| Ingredients                                                                                                                                 | Literature Referenced<br>Target Organ and Other Health Effects | Car<br>NTP                                                                      | cinog<br>IARC                                                                   | en<br>OSHA                |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------|
| Polyurethane acrylate resin<br>N-Vinyl-2-pyrrolidinone<br>Acrylate ester<br>Photoinitiator<br>SILICA, AMDRPHOUS, FUMED,<br>CRYSTALLINE-FREE | HLG IRR<br>No Data                                             | 22<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2 | 22<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2 | 2222<br>000<br>000<br>000 |
|                                                                                                                                             | NUI                                                            | NO                                                                              | N/A                                                                             | NO                        |

Abbreviations

N/A Not Applicable CRC Carcinogen LIV Liver SEN Sensory

ALG Allergen IRR Irritant NUI Nuisance dust

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8605712595

4 05-14-98 11:56 am 1 963 of 967

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MATERIAL SAFETY DATA SHEET

Page 2 of

Product Name: Item No.:

LiteTak(R) 375 Surface Curing UV Adhesive

37590

<u>4. FIRST AID MEASURES</u>

Ingestion:

Do not induce vomiting. Keep individual calm.

Obtain medical attention

Remove to fresh air. If symptoms persist, obtain

Inhalation:

Skin Contact: Eye Contact:

medical attention.
Wash with soap and water.
Flush at least 15 minutes with water.

medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:

More than 200 F Method: Tag Closed Cup

Recommended

Carbon dioxide, foam, dry chemical

Extinguishing Agents: Special Firefighting Procedures:

Not available

Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or

None

Explosion Hazards: Explosive Limits: (% by volume in air)Lower (% by volume in air)Upper

Not available Not available

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Soak up with an inert absorbent. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer Handling:

Store between 40°F and 110°F away from light. Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes. Avoid prolonged breathing of vapors.

EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Ventilation: Respiratory

Safety glasses or goggles. Rubber or plastic gloves. Sufficient to maintain vapor concentration

below TLV.

Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear liquid

Odor: Boiling Point: Mild More than 300 F

Does not apply Slight

1.1

pH: Solubility in Water: Specific Gravity Volatile Organic Compound

34.1% Less than 5mm at 80°F

(EPA Method 24) Vapor Pressure: Vapor Density: Evaporation Rate

(Ether = 1)

Not available

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Not available

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10. STABILITY AND REACTIVITY

Stability: Hazardous Polymerization: Stable

Incompatibility:

Will not occur

Strong oxidizers, peroxides, copper and alloys, carbon steel, iron, rust, strong bases. These incompatibilities do not preclude the use of this product as an adhesive for any substrate mentioned above; however, this product should not

₫ 65-14-98 11:57 am 19 884 of 887

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MATERIAL SAFETY DATA SHEET

Page 3 of

Product Name: Item No.:

LiteTak(R) 375 Surface Curing UV Adhesive 37590

10. STABILITY AND REACTIVITY

(continued)

be stored in a container composed in whole or in part of these substrates. See Technical Data Sheet for any restrictions other than incompatibility. Not available

Conditions to Avoid: Hazardous Decomposition Products (non-thermal):

None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: EPA Hazardous Waste

Incinerate following EPA and local regulations.

Number NH - Not a RCRA Hazardous Waste Material

TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or Unrestricted

Division:

Unrestricted

Identification Number: Marine Pollutant:

None

IATA

Proper Shipping Name: Class or Division: Class or Divisio UN or ID Number:

Unrestricted Unrestricted

None

2

2 1

15. REGULATORY INFORMATION

CA Proposition 65:

Not available

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard:

Reactivity Hazard: Specific Hazard:

Estimated HMIS(R) Code: Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection:

See Section 8.

Does not apply

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HMIS is a registered

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Prepared By:

Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist; Safety, Health&Regulatory Affairs
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 05057
(850) 571-5100
January 22, 1995
Revision: 0024

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MATERIAL SAFETY DATA SHEET

Page 1 of

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Item No.: Product Type: LiteTak(R) 3751 Adhesive

21362

COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                    | CAS No.                                | %                     |
|--------------------------------------------------------------------------------|----------------------------------------|-----------------------|
| Polyurethane acrylate resin<br>Modified acrylamide<br>Substituted hydroxyalkyl | 116958-43-1<br>2680-03-7               | 50-55<br>15-20        |
| methacrylate Acrylate ester Triacrylate ester                                  | Proprietary<br>7328-17-8<br>28961-43-5 | 10-15<br>5-10<br>5-10 |

3-5 1-3 Photoinitiator 24650-42-8 Benzoic acid derivative SILICA, AMORPHOUS, FUMED, 10287-53-3 SILICA, AMORPHOUS CRYSTALLINE-FREE 112945-52-5 1-3

Ingredients which have exposure limits

| Exposure Limits (TWA) | ACGIH | OSHA  | OTHER |
|-----------------------|-------|-------|-------|
| Ingredients           | (TLV) | (PEL) |       |

SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE 10 mg/m3 TWA 3 mg/m3 TWA 5 mg/m3 TWA resp. dust

Exposure Limits (STEL) ACGIH OSHA Ingredients (TLV) (PEL)

#### HAZARDS IDENTIFICATION

Toxicity:

Contact may injure eyes, skin or respiratory tract Eye, skin, and inhalation irritant. Possible sensitizer. Moderately toxic by ingestion. Tests have indicated that the triacrylate ester may cause lymphoma in mice. Breathing heated vapors may cause nausea, dizziness, or respiratory irritation resulting in severe or permanent allergic respiratory reaction. Eves. skin.

Eyes, skin.

Primary Routes of Entry: Signs and Symptoms of Exposure:

Existing Conditions

Irritation of eyes, skin, or respiratory tract.

Aggravated by Exposure: Skin, eye, lung, and systemic diseases.

| Ingredients                                                                          | Literature Referenced<br>Target Organ and Other Health Effects | Car      | cinog<br>IARC                                                                   | en<br>OSHA                       |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------------------------------|
| Polyurethane acrylate r<br>Modified acrylamide<br>Substituted hydroxyalk             | esin No Data<br>No Data<br>vi                                  | N0<br>0N | <b>N</b> O                                                                      | N0<br>N0                         |
| methacrylate Acrylate ester Triacrylate ester Photoinitiator Benzoic acid derivative | ALG IRR<br>ALG IRR<br>ALG IRR<br>No Data<br>No Data            | 22222    | 22<br>22<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2 | X0<br>X0<br>X0<br>X0<br>X0<br>X0 |
| SILICA, AMORPHOUS, FUME<br>CRYSTALLINE-FREE                                          | , NUI                                                          | NO       | N/A                                                                             | NO                               |

Abbreviations

N/A Not Applicable IRR Irritant

ALG Allergen NUI Nuisance dust

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MATERIAL SAFETY DATA SHEET

Page 2 of

Product Name:

LiteTak(R) 3751 Adhesive

21362

4. FIRST AID MEASURES

Ingestion:

Item No.:

Do not induce vomiting. Keep individual calm. Obtain medical attention. Remove to fresh air. If symptoms persist, obtain

Inhalation:

medical attention.
Wash with soap and water.
Flush at least 15 minutes with water.
Obtain medical attention. Skin Contact: Eye Contact:

5. FIRE FIGHTING MEASURES

Flash Point: Recommended

189 · F

Method: Tag Closed Cup

Extinguishing Agents: Special Firefighting Procedures:

Not available

Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors; oxides of carbon and

nitrogen.

Unusual Fire or Explosion Hazards:

None

Explosive Limits: (% by volume in air)Lower (% by volume in air)Upper

Not available Not available

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Remove sources of ignition. Maintain adequate

ventilation.

Soak up with an inert absorbent. Store in partly

filled, closed container until disposal.

Carbon dioxide, foam, dry chemical

HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer

Handling:

Store below 100 F away from sources of ignition. Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes. Avoid breathing vapors. Keep away from sources of ignition.

EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Safety glasses or goggles. Rubber or plastic gloves. Local, explosion-proof exhaust ventilation should be used.

Ventilation:

Not available

Respiratory

See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor:

**Boiling Point:** 

Clear, water-white liquid

Mild ester and amine More than 300°F Does not apply

Slight 1.052

Boiling pH:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

32.94%; 350 grams per liter Less than 5mm at 80°F Not available

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Not available

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10. STABILITY AND REACTIVITY

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Stability: Hazardous Polymerization:

Incompatibility:

Unstable May occur

Strong oxidizers, peroxides, copper and alloys,

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MATERIAL SAFETY DATA SHEET

Page 3 of

Product Name: Item No.:

LiteTak(R) 3751 Adhesive 21362

STABILITY AND REACTIVITY

(continued)

carbon steel, iron, rust, strong bases, amines, acids, free radical producing initiators. These incompatibilities do not preclude the use of this product as an adhesive for any substrate mentioned above; however, this product should not be stored in a container composed in whole or in part of these substrates. See Technical Data Sheet for any restrictions other than incompatibility. Not available Not available

Conditions to Avoid: Hazardous Decomposition Products (non-thermal):

Dimethylamine

TOXICOLOGICAL INFORMATION

See Section 3.

ECOLOGICAL INFORMATION

No data available

DISPOSAL CONSIDERATIONS

Recommended methods of

disposal: EPA Hazardous Waste Number

Incinerate following EPA and local regulations.

NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport Proper Shipping Name:

Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s.

(N.N-Dimethylacrylamide solution) (More than 450

liters)

Hazard Class or Division:

Unrestricted (Not more than 450 liters); Combustible liquid (More than 450 liters) None (Not more than 450 liters); NA 1993 (More than 450 liters)

Identification Number:

None

Marine Pollutant: IATA

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted None

15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive

harm.

toluene, phenyl glycidyl ether, ethylene oxide, acetaldehyde, dioxane

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

Does not apply

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Estimated HMIS(R) Code: Health Hazard:

Flammability Hazard: Reactivity Hazards: Personal Protection:

2

See Section 8.

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MATERIAL SAFETY DATA SHEET

Page 4 of 4

Product Name: Item No.:

LiteTak(R) 3751 Adhesive 21362

16. OTHER INFORMATION

(continued)

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist; Safety, Health&Regulatory Affairs
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(850) 571-5100
September 24, 1997 Revision: 0006

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MATERIAL SAFETY DATA SHEET

Page 1 of

PRODUCT IDENTIFICATION

DHESIVE

Product Name: Item No.: Product Type:

Super Bonder(R) 495 General Purpose Inst Adh 49550

Cyanoacrylate Ester

COMPOSITION

Ingredients

CAS No.

웋

Ethyl cyanoacrylate Poly (methyl methacrylate) HYDROQUINONE

7085-85-0 9011-14-7 123-31-9

95-100

CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: Vapor Density: Solubility in Water: Specific Gravity:

Boiling Point:

Volatile Organic Compound (EPA Method 24)

Evaporation Rate (Ether = 1)

pH: Appearance: odor:

Less than 0.2mm at 75 F Approximately 3 Polymerized by water. More than 300 F

94.7%; 994.35 g/l

Not available Not Applicable Clear liquid Sharp, irritating.

Does not apply

See Section X.

Not available Not available

150-200'F

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point: :timated NFPA Code:

Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

Estimated HMIS Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazard:
Personal Protection:
Explosive Limits:

(% by volume in air)Lower (% by volume in air)Upper

Recommended

Extinguishing Agents: Carbon dioxide, foam, dry che Hazardous Products Formed by Fire or Thermal Decomp Irritating organic fragments.

Unusual Fire or Explosion Hazards: Compressed Gases:

Pressure at Room Temp:

None None

Does not apply

Carbon dioxide, foam, dry chemical and them to some it has been to

NOV 17 1995

Method: Tag Closed Cup

THE MUREY COOP

SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak:

Flood with water to polymerize. Soak up with an inert absorbent.

Recommended methods of disposal:

Polymerize as above.

INCINCTAL TO THE PART OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE P

Safe Storage:
'Contact Loctite Customer andling:

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Store at or below 75 F Service 1-800-243-4874 for shelf life information) Avoid contact with skin and eyes. Avoid breathing vapors.

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910

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MATERIAL SAFETY DATA SHEET

Page 2 of

roduct Name: :em No.:

Super Bonder(R) 495 General Purpose Inst Adh 49550

VII SHIPPING REGULATIONS

DOT (49 CFR 172)

Domestic Ground Transport Proper Shipping Name:

Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters)

Hazard Class or Division:

Identification Number:

Marine Pollutant: IATA

Proper Shipping Name:

Class or Division:

UN or ID Number:

Unrestricted (Not more than 450 liters) Combustible liquid (More than 450 liters) None (Not more than 450 liters); NA 1993 (More than 450 liters)

None

Unrestricted (Not more than one pint); Other regulated substances (More than one pint)

Unrestricted (Not more than one pint);

Class 9 (More than one pint) None (Not more than one pint) ID 8027 (More than one pint)

VIII REACTIVITY DATA

Stability: Hazardous Polymerization: Hazardous Decomposition Products (non-thermal):

Incompatability:

Stable

Will not occur.

Polymerized by contact with water, alcohols, amines, alkalies.

IX EMERGENCY TREATMENT PROCEDURES

igestion:

Inhalation:

Skin Contact:

Eye Contact:

Ingestion is not likely. See supplemental page for

emergency procedures.
Remove to fresh air. If symptoms persist, obtain medical attention.

Soak in warm water. See supplemental page for emergency procedures. Flush with water. See supplemental page for

emergency procedures.

PERSONAL PROTECTION

Eyes: Skin:

Ventilation:

Safety glasses or goggles.
Nitrile or polyethylene gloves and aprons.
Do not use cotton.

See supplemental page for additional information. Positive down-draft exhaust ventilation should be provide to maintain vapor concentration below. TLV.

XI HEALTH HAZARD DATA

NOV 17 1995

Toxicity:

Skin contact may cause burns.

Bonds skin rapidly and strongly. THE MUREY CONSISTENCY
Skin and eye irritant. Estimated oral LD50 more than 5000mg/kg.

Estimated dermal LD 50 more than 2000 mg/kg.

None known

Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing Conditions Aggravated by Exposure:

Primary Routes of Entry:

Signs and Symptoms

of Exposure:

None known

MOR 000992

Exposure Limits (TWA)

Ingredients

Ethyl cyanoacrylate

HYDROOUINONE

ACGIH (TLV)

OSHA (PEL) OTHER

None

None

2 ppm TWA 9 1 mg/m3 2 mg/m3 TWA

2 mg/m3 TWA

2 mg/m3 TWA

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MATERIAL SAFETY DATA SHEET

3 of Page

roduct Name: :em No.:

Super Bonder(R) 495 General Purpose Inst Adh 49550

HEALTH HAZARD DATA

(continued)

4 mg/m3 STEL

Exposure Limits (STEL) Ingredients

ACGIH (TLV)

OSHA (PEL)

Ethyl cyanoacrylate

(4 ppm) (18 mg/m3)

(4 ppm) (16 mg/m3)

Ingredients for which no Exposure Limits have been established are not listed above.

Ingredients

Literature Referenced Target Organ and Other Health Effects

Carcinogen NTP IARC OSHA

Ethyl cyanoacrylate Poly (methyl methacrylate) HYDROQUINONE

ALG IRR RES IRR

ИО ИО NO

N/A NO NO BLO BNM CNS EYE IMM IRR MUT SKI NO N/A NO

Abbreviations

N/A Not Applicable
BLO Blood
CNS Central nervous system
IMM Immune system
MUT Mutagen
CNI Skin

SKI Skin

ALG Allergen

BNM Bone Marrow EYE Eyes IRR Irritant RES Respiratory

#### II PREPARATION INFORMATION

Prepared By: Title:

Company:

(24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist, Environmental Health & Safety
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100

January 03, 1995

Revision: 0026

Land I have be best

NOV 1 7 1995

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:em No.:

49550

Supplement

INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It ponds numan tissue including skin in seconds, Experience has snown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT
Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

SKIN ADHESION
First immerse the bonded surfaces in warm, soapy water. Peel or roll
the surfaces apart with the aid of a blunt edge, e.g. a spatula or a
teaspoon handle; then remove adhesive from the skin with soap and
water. Do not try to pull surfaces apart with a direct opposing
action.

EYELID TO EYELID OR EYEBALL ADHESION
In the event that eyelids are stuck together or bonded to the eyeball, ish thoroughly with warm water and apply a gauze patch. The eye will pen without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

MOUTH
If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum welling and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive 00 17 1995 solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, possible patient to prevent ingestion of the lump when it detaches.

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY
It should never be necessary to use such a drastic method to separate accidentally bonded skin

⊕ 65-12-97 10:33 am 1 002 of 007

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MATERIAL SAFETY DATA SHEET

Page 1 of 4

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Item No.: Product Type:

Super Bonder(R) 496 Instant Adhesive

49650

Cyanoacrylate Ester

COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients

CAS No.

METHYL 2-CYANDACRYLATE Poly (methyl methacrylate) HYDROQUINONE 137-05-3 9011-14-7

90-95 9.1-0.5

4

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients

ACGIH (TLV)

DSHA (PEL) DITHER

None

METHYL 2-CYANDACRYLATE

2 ppm TWA 9.1 mg/M3 2 mg/m3 TWA

2 ppm TWA 8 mg/M3 2 mg/m3 TWA

Z mg/m3 TWA 4 mg/m3 STEL

HYDROQUINONE '

ACGIH

(TLV)

OSHA (PEL)

Exposure Limits (STEL) Ingredients METHYL 2-CYANOACRYLATE

4 ppm 18 mg/M3

4 ppm 16 mg/M3

HAZARDS IDENTIFICATION

Toxicity:

Skin contact may cause burns.
Bonds skin rapidly and strongly.
Skin and eye irritant.
Estimated oral LD50 more than 5000mg/kg.
Estimated dermal LD 50 more than 2000 mg/kg.

Primary Routes of Entry:

Signs and symptoms of Exposure:

Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing Conditions

Aggravated by Exposure:

None known

None known

Ingredients

Literature Referenced Target Organ and Other Health Effects

METHYL 2-CYANDACRYLATE

ALG IRR

NO NO NO N/A

Poly (methyl methacrylate) HYDROQUINONE

IRR

AC3 BLO BNM CNS EYE IMM IRR MUT NO

SKI

Abbreviations --

N/A Not Applicable ALG Allergen BNM Bone Marrow

EYE

EYE Eyes IRR Irritant SKI Skin

AC3 ACGIH animal carcinogen.

BLD Blood CNS Central nervous system

IMM Immune system

MUT Mutagen

MOR 000995

4. FIRST AID MEASURES

Ingestion:

Skin Contact:

Ingestion is not likely. See supplemental page for

emergency procedures. Remove to fresh air. If symptoms persist

Inhalation:

Soak in warm water. See supplemental RECEIVED

emergency procedures.

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No.:

Super Bonder(R) 496 Instant Adhesive

49650

FIRST AID MEASURES

(continued)

Eye Contact:

Flush with water. See supplemental page for

emergency procedures.

5. FIRE FIGHTING MEASURES

Flash Point: Recommended

150-200 · F

Tag Closed Cup Method:

Extinguishing Agents:

Carbon dioxide, foam, dry chemical Hazardous Products formed

by Fire or Thermal Decomp Irritating organic fragments. Unusual Fire or

Explosion Hazards:

Explosive Limits: (% by volume in air)Lower (% by volume in ajr)Upper

Not available Not available

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak:

Flood with water to polymerize. Soak up with an

inert absorbent.

HANDLING AND STORAGE

Safe Storage: (Contact Loctite Customer Handling:

Store at or below 75 deg. F Service 1-800-243-4874 for shelf Life information) Avoid contact with skin and eyes. Avoid breathing

vapors.

EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Safety glasses or goggles. Nitrile or polyethylene gloves and aprons. Do not use cotton.

Ventilation:

See supplemental page for additional information. Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below TLV.

See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear liquid

Odor:

Sharp, irritati More than 300 F irritating.

Boiling Point:

Does not apply Polymerized by water. 1.09 at 75°F

92.5%; 1009.34 g/l Less than 0.2mm at 75°F

Approximately 3

Boiling Point:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(FPO Mothod 2")
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Not available

10. STABILITY AND REACTIVITY

Stability: Hazardous Polymerization:

Incompatibility:

Will not occur Polymerized by contact with water, alcohols,

amines, alkalies.

Hazardous Decomposition

Products (non-thermal): None MOR 000996

TOXICOLOGICAL INFORMATION

See Section 3.

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From: Loctite Corporation at @ 8685712595 ② 85-12-97 18:49 am 19 002 of 005 1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100 5/12/97 10:28:35 LOCTITE CORPORATION ISSUED FAX: (850) 571-5465 MATERIAL SAFETY DATA SHEET Page 3 of Super Bonder(R) 496 Instant Adhesive 49650 Product Name: Item No.: 12. ECOLOGICAL INFORMATION No data available DISPOSAL CONSIDERATIONS Recommended methods of Polymerize as above. Incinerate in accordance disposal: with EPA and local regulations. EPA Hazardous Waste NH - Not a RCRA Hazardous Waste Material Number TRANSPORTATION INFORMATION DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name: Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters) Hazard Class or Unrestricted (Not more than 450 liters) Combustible liquid (More than 450 liters) None (Not more than 450 liters); NA 1993 (More than 450 liters) Division: Identification Number: Marine Pollutant: None IATA Proper Shipping Name: Unrestricted (Not more than one pint); Other regulated substances (More than one pint) Unrestricted (Not more than one pint);

UN or ID Number:

Class or Division:

Class 9 (More than one pint) None (Not more than one pint) ID 8027 (More than one pint)

15. REGULATORY INFORMATION

No California Proposition 65 chemicals are known CA Proposition 65:

to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: Fire Hazard: Repotivity Hazard: Specific Hazard:

Does not apply

Estimated HMIS(R) Code:

Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection:

See Section 8.

2

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Prepared By:

Stephen Repetto Research Chemist, Environmental Health & Safety Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 Title: Company: (24hr.) Phone: Date: Loctite Corp., (860) 571-5100 April 15, 1997

Revision Date:

Revision: 0025

MOR 000997

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② 05-12-97 10:50 am № 003 of 005

LOCTITE CORPORATION

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MATERIAL SAFETY DATA SHEET

Page 4 of 4

Product Name: Item No.:

Super Bonder(R) 495 Instant Adhesive 49650

Supplement

INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

SKIN ADHESION First immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action.

EYELID TO EYELID OR EYEBALL ADHESION In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

MOUTH
If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY
It should never be necessary to use such a drastic method to separate accidentally bonded skin.

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MATERIAL SAFETY DATA SHEET

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571-5465

ISSUED

# CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Loctite(R) 712 Accelerator Tak Pak(R) 20352 Activator

Item No :
Product Type:

# COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients CAS No. ક્ર

ISOPROPYL ALCOHOL N.N-Dialkyltoluidine HYDROQUINONE 67-63-0 99-97-8 95-100 123-31-9 0.01-0.1

Ingredients which have exposure limits

Exposure Limits (TWA) ACGIH OSHA OTHER

Ingredients (TLV) (PEL)

400 ppm TWA 983 mg/m3 400 ppm TWA 980 mg/m3 ISOPROPYL ALCOHOL None

HYDROQUINONE 2 mg/m3 TWA 2 mg/m3 TWA mg/m3 TWA 4 mg/m3 STEL

Exposure Limits (STEL) ACGIH OSHA Ingredients (TLV) (PEL)

500 ppm 1230 mg/m3 500 ppm 1225 mg/m3 ISOPROPYL ALCOHOL

# HAZARDS IDENTIFICATION

Eye and skin irritant. Also see "Signs and symptoms of exposure". Inhalation, ingestion, skin and eye contact. loxicity:

Primary Routes of Entry:

Signs and symptoms of Exposure: Headache, nausea, dizziness, vomiting, drowziness,

irritation of respiratory tract, loss of consciousness, pulmonary edema, temporary corneal damage, gastrointestinal irritation, central nervous system depression.

Existing Conditions
Aggravated by Exposure:

Isopropyl alcohol: Skin disorders, eye problems, respiratory disorder

Carcinogen NTP IARC OSHA Literature Referenced Target Organ and Other Health Effects Ingredients

NO ISOPROPYL ALCOHOL ALG CNS IRR NO N/A MUT AC3 NO N, N-Dialkyltoluidine NO ИО BLO BNM CNS EYE IMM IRR MUT NO ИО

HÝDROQUINÔNE SKI

#### Abbreviations

AC3 ACGIH animal carcinogen. N/A Not Applicable ALG Allergen BNM Bone Marrow BLO Blood CNS Central nervous system EYE Eyes IRR Irritant IMM Immune system MUT Mutagen

SKI Skin

MOR 000999

#### FIRST AID MEASURES

Do not induce vomiting. Keep individual calm. Obtain medical attention. Remove to fresh air. If symptoms persist, obtain Ingestion:

Inhalation:

medical attention

Wash with soap and water. Flush at least 15 minutes with water. Skin Contact: Eye Contact:

medical attention.

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MATERIAL SAFETY DATA SHEET

Page 2 of

Product Name: Item No.:

Loctite(R) 712 Accelerator Tak Pak(R) 20352

# FIRE FIGHTING MEASURES

Flash Point: Recommended

53 'F

Method: Tag closed cup

Carbon dioxide, foam, dry chemical

Extinguishing Agents: Special Firefighting Procedures:

Not available

Hazardous Products formed
by Fire or Thermal Decomp Oxides of carbon
Unusual Fire or

Explosion Hazards:

Distant ignition sources may ignite vapors

traveling with moving air currents.

Explosive Limits: (% by volume in air)Lower (% by volume in air)Upper

2.0% Isopropyl alcohol 1.2% Dialkyl toluidine 12.7% isopropyl alcohol at 200 F 7% Dialkyltoluidine

# ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Remove sources of ignition. Allow to evaporate with good ventilation.

#### 7 HANDLING AND STORAGE

Safe Storage: (Contact Loctite Customer Handling:

Store below 110 F away from sources of ignition. Service 1-800-243-4874 for shelf Life information) Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged skin contact.

### EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Ventilation:

Respiratory

Safety glasses or goggles. Rubber or plastic gloves. Provide adequate local ventilation to maintain

vapor concentration below TLV

Not available

See Section 2 for Exposure Limits.

#### PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear liquid

Odor:

Alcoholic

Boiling Point:

180'F

pH: Solubility in Water: Specific Gravity Volatile Organic Com (EPA Method 24) Vapor Pressure:

Does not apply 95-100% 0.79

Compound

99.9%; 789 grams/liter 33 mm at 70 F

Vapor Density: Evaporation Rate

(Ether = 1)

#### 10 STABILITY AND REACTIVITY

Stable

Stability: Hazardous Polymerization:

Will not occur

Incompatibility:

Strong oxidizing agents, aluminum, nitric acid, sulfuric acid, amines, ammonia, halogen acids and chlorides, aldehydes

Conditions to Avoid: Not available

TOXICOLOGICAL INFORMATION

Hazardous Decomposition

None

# Products (non-thermal):

See Section 3

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MATERIAL SAFETY DATA SHEET

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?roduct Name:

Loctite(R) 712 Accelerator Tak Pak(R) 20352

Item No ::

ECOLOGICAL INFORMATION

No data available

DISPOSAL CONSIDERATIONS

Recommended methods of

disposal: EPA Hazardous Waste Incinerate following EPA and local regulations.

Number D001 - Hazardous waste per 40CFR 261.21

TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:

Consumer Commodity (Not more than one liter); Isopropanol solution (More than one liter)

Hazard Class or

Division:

ORM-D (Not more than one liter); Class 3, Packing Group II (More than one liter) None (Not more than one liter); UN 1219 (More than one liter)

Identification Number:

Marine Pollutant: None IATA

Proper Shipping Name: Isopropanol solution

Class or Division: UN or ID Number: Class 3, Packing Group II UN 1219

REGULATORY INFORMATION

Not available CA Proposition 65:

OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard: 23 Fire Hazard: Reactivity Hazard: Specific Hazard: 0

Does not apply

Estimated HMIS(R) Code:

Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection: 23

See Section 8.

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Prepared By: Stephen Repetto Research Chemist, Environmental Health & Safety Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 (860) 571-5100
April 15. 1997 Revision: 0017 Title: Company: (24hr.) Phone:

Revision Date:

② 98-28-97 09:48 am 15 982 of 915

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MATERIAL SAFETY DATA SHEET

Page 1 of

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Tak Pak(R) 7452 Accelerator Metered Mist 18637 Part of Kit: 2042 20420

Item No.: Product Type:

Aerosol accelerator

99-97-8

COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients CAS No. % **ACETONE** 67-64-1 70-75 75-28-5 74-98-6 ISOBUTANE 15-20

PROPANE N.N-Dialkyltoluidine

10-15 0.1-1

Ingredients which have exposure limits

Exposure Limits (TWA) ACGIH OSHA OTHER Ingredients (TLV) (PEL)

750 ppm TWA 1800 mg/m3 1000 ppm 1800 mg/m3 **ACETONE** 750 ppm TWA 1780 mg/m3 None PROPANE Asphyxiant None

Exposure Limits (STEL) ACGIH OSHA Ingredients (TLV) (PEL)

**ACETONE** 1000 ppm 1000 ppm 2380 mg/m3 2400 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity:

Possible eye irritant.
Moderately toxic by ingestion.
Estimated dermal LD50 more than 2000 mg/kg.

Primary Routes of Entry: Inhalation, ingestion, contact.

Signs and symptoms of Exposure: Vapors irritate eyes, nose and throat. Liquid is an eye irritant and may irritate skin.

Existing Conditions

Aggravated by Exposure: None known

Carcinogen NTP IARC OSHA Literature Referenced Target Organ and Other Health Effects Ingredients BLO CNS IRR CAR CNS LUN CAR CNS IRR **ACETONE** NO NO NO NO NO NO ISOBUTANE NÕ NO NÖ

PROPANE NO NO NO N, N-Dialky Itoluidine MUT

Abbreviations

BLO Blood CNS Central nervous system LUN Lung CAR Cardiac IRR Irritant MUT Mutagen

4. FIRST AID MEASURES

Give water to dilute. Do not induce vomiting. Keep individual calm. Obtain medical attention. Remove to fresh air. If symptoms persist, obtain Ingestion:

Inhalation:

medical attention. Skin Contact:

Wash with soap and water. Flush with water for at least 15 minutes. Obtain Eye Contact:

medical attention.

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LOCTITE CORPORATION

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MATERIAL SAFETY DATA SHEET

Page 2 of

Product Name:

Tak Pak(R) 7452 Accelerator Metered Mist 18637

Item No.:

#### FIRE FIGHTING MEASURES

Flash Point:

1.4 · F (Base) - 165 · F (Propellants) Method: Tag Closed Cup Method: Open Cup

Recommended

Carbon dioxide, foam, dry chemical

Extinguishing Agents: Special Firefighting Procedures:

Not available

Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or
Explosion Hazards:
Cans may explode in fires

Cans may explode in fires.

Explosive Limits: (% by volume in air)Lower

1.2% 2.5% N, N-Dialky Itoluidine

Acetone 1.8% Isobutane

(% by volume in air)Upper

Propane 2.1% 7% N,N-Dialkyltoluidine

13% Acetone 8.4% Isobutane 9.8% Propane

#### 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Avoid flame, sparks and other sources of ignition. Maintain adequate ventilation. Soak up in an inert absorbent. Store in a closed container until

disposal.

7. HANDLING AND STORAGE

Safe Storage:

Store away from flame, sparks and other sources of ignition. Store below 100°F.
Service 1-800-243-4874 for shelf Life information) Avoid prolonged breathing of fumes. Avoid skin or eye contact. Do not use near heat, sparks, or open flame.

(Contact Loctite Customer Handling:

EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Ventilation:

Respiratory

Safety glasses or goggles. Rubber or plastic gloves. Sufficient to maintain vapor concentration below TLV.

Not available

See Section 2 for Exposure Limits.

# PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear to amber liquid

Odor: Boiling Point:

Acetone 135 F (Base only)

Does not apply Miscible 0.7926 (Base only)

Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Fther = 1)

(Ether = 1)

1.02%;808 grams per liter of material (Approximately 180mm at 68°F (Base only) Approximately 2 (Base only) (Base only)

1.9 (Base only)

MOR 001003

#### STABILITY AND REACTIVITY

Stability:

Will not occur Strong oxidizers Not available

Hazardous Polymerization: Incompatibility: Conditions to Avoid: Hazardous Decomposition Products (non-thermal):

None

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MATERIAL SAFETY DATA SHEET

Page 3 of 3

Product Name: Item No.:

Tak Pak(R) 7452 Accelerator Metered Mist

TOXICOLOGICAL INFORMATION

See Section 3.

12, ECOLOGICAL INFORMATION

No data available

DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Incinerate following EPA and local regulations. Do not incinerate cans still under pressure.

EPA Hazardous Waste Number

D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name:

Consumer Commodity

Hazard Class or

Division: ORM-D Identification Number: None Marine Pollutant: None

IATA Proper Shipping Name: Class or Division: UN or ID Number:

Aerosols, flammable, n.o.s. Division 2.1 UN 1950

15. REGULATORY INFORMATION

CA Proposition 65:

This product does not contain any chemicals regulated by California Proposition 65.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: Fire Hazard:

4 Reactivity Hazard: Specific Hazard:

Does not apply

Estimated HMIS(R) Code: Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection:

See Section 8.

2 4

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trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By:

Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto

Research Chemist, Environmental Health & Safety Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 05057 (850) 571-5100

January 22, 1996

Revision: 0012

MOR 001004

RECEIVED

AUG 2 8 1997

ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100 MATERIAL SAFETY DATA SHEET

Rec \$ 4/19/01

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite(R) 4471 Instant Adhesive Prism(R)

Surface Insensitive

Item No.: 44740

Product Type: Cyanoacrylate ester

#### 2. COMPOSITION, INFORMATION ON INGRÉDIENTS

- Ingredients CAS No. %

Ethyl cyanoacrylate 7085-85-0 85-90
Poly (methyl methacrylate) 9011-14-7 5-10

- HYDROQUINONE 123-31-9 0.1-0.5

#### Ingredients which have exposure limits

| Exposure Limits (TWA)  | ACGIH       | OSHA        | OTHER        |
|------------------------|-------------|-------------|--------------|
| Ingredients            | (TLV)       | (PEL)       |              |
| Ethyl cyanoacrylate    | 0.2 ppm TWA | None        | None         |
| HYDROQUINONE           | 2 mg/m3 TWA | 2 mg/m3 TWA | 2 mg/m3 TWA  |
|                        | -           | -           | 4 mg/m3 STEL |
| Exposure Limits (STEL) | ACGIH       | OSHA        |              |
| Ingredients            | (TLV)       | (PEL)       |              |

#### 3. HAZARDS IDENTIFICATION

Toxicity: Skin contact may cause burns. Bonds skin rapidly and strongly. Skin and eye irritant. Estimated oral LD50 more than 5000mg/kg. Estimated dermal LD 50 more than 2000 mg/kg.

Primary Routes of Entry: None known

Signs and Symptoms of Exposure: Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals. Existing Conditions Aggravated by Exposure: None known

Literature Referenced Carcinogen
Ingredients Target Organ and Other Health Effects NTP IARC OSHA

Ethyl cyanoacrylate ALG IRR RES NO NO NO POly (methyl methacrylate) IRR NO NO NO NO HYDROQUINONE AC3 BLO BNM CNS EYE IMM IRR LIV NO N/A NO MUT SKI THY

# Abbreviations

N/A Not Applicable
AC3 ACGIH animal carcinogen.
ALG Allergen
BNM Bone Marrow
EYE Eyes
IMM Immune system
LIV Liver
MUT Mutagen
SKI Skin
AC3 ACGIH animal carcinogen.
BLO Blood
CNS Central nervous system
LIV Liver
LIV Liver
THY Thyroid

#### 4. FIRST AID MEASURES

Ingestion: Ingestion is not likely. See supplemental page for emergency procedures.

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Soak in warm water. See supplemental page for emergency procedures.

Eye Contact: Flush with water. See supplemental page for emergency procedures.

```
5. FIRE FIGHTING MEASURES
Flash Point: 150 - 200 F
 Method: Tag Closed Cup
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting Procedures: Not available
Hazardous Products formed by Fire or Thermal Decomp Irritating organic
Unusual Fire or Explosion Hazards: None
Explosive Limits:
(% by volume in air)Lower Not available
(% by volume in air)Upper Not available
6. ACCIDENTAL RELEASE MEASURES
Steps to be taken in case of spill or leak: Flood with water to
 polymerize. Soak up with an inert absorbent.
7. HANDLING AND STORAGE
Safe Storage: Store at or below 75 deg. F
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid contact with eyes and skin. Avoid breathing of vapors
8. EXPOSURE CONTROLS, PERSONAL PROTECTION
Eyes: Safety glasses or goggles.
Skin: Nitrile or polyethylene gloves and aprons. Do not use cotton. See
 supplemental page for additional information.
Ventilation: Positive down-draft exhaust ventilation should be provided to
 maintain vapor concentration below TLV
Respiratory: Not available
 See Section 2 for Exposure Limits.
9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance:
 Clear liquid
Odor:
 Sharp, irritating
 More than 300 F
Boiling Point:
pH:
 Does not apply
Solubility in Water:
 Polymerized by water
 1.05
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
 87.2%; 916 grams per liter
Vapor Pressure:
 Less than 0.2mm
Vapor Density:
 Approximately 3
Evaporation Rate
 (Ether = 1)
 Not available
10. STABILITY AND REACTIVITY
Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Polymerized by contact with water, alcohols, amines, or
 alkalies.
Conditions to Avoid: Not available
Hazardous Decomposition Products (non-thermal): None
11. TOXICOLOGICAL INFORMATION
```

13. DISPOSAL CONSIDERATIONS

12. ECOLOGICAL INFORMATION

See Section 3.

No data available

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56479/MOREY CORP. /L0C44740 Recommended methods of disposal: Polymerize as above. Incinerate in accordance with EPA and local regulations. EPA Hazardous Waste Number NH - Not a RCRA Hazardous Waste Material 14. TRANSPORTATION INFORMATION DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name: Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters) Hazard Class or Unrestricted (Not more than 450 liters) Division: Combustible liquid (More than 450 liters) Identification Number: None (Not more than 450 liters); NA 1993 (More than 450 liters) Marine Pollutant: None Proper Shipping Name: Unrestricted (Not more than one pint); Aviation regulated liquid, n.o.s., (Cyanoacrylate Ester) (More than one pint) Class or Division: Unrestricted (Not more than one pint); Class 9 (More than one pint) UN or ID Number: None (Not more than one pint) UN 3334 (More than one pint) 15, REGULATORY INFORMATION CA Proposition 65: Not available 16. OTHER INFORMATION Estimated NFPA(R) Code: Health Hazard: Fire Hazard: 2 Reactivity Hazard: Specific Hazard: Does not apply Estimated HMIS(R) Code: Health Hazard: Flammability Hazard: 2 Reactivity Hazards: Personal Protection: See Section 8.

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Prepared By: Stephen Repetto

Research Chemist, Environmental Health & Safety Title: Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067

(860) 571-5100 (24hr.) Phone:

Revision Date: January 26, 1999 Revision: 0009

### 17. Supplement

INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT: Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin. Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of

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adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

SKIN ADHESION: First immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action.

EYELID TO EYELID OR EYEBALL ADHESION: In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL: Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

MOUTH: If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS: Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY: It should never be necessary to use such a drastic method to separate accidentally bonded skin.

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#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

3880 Adhesive Electrically Conductive 30077

Item No.: Product Type: Conductive Adhesive Rec. 6/8/01

3

# COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                          | CAS No.                                                                                          | €                                             |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------|
| SILVER* Epoxy resin Epoxy resin Epoxy resin Amine hardener HARDENER Carbitol acetate | 7440-22-4<br>Proprietary<br>Proprietary<br>Proprietary<br>Proprietary<br>Proprietary<br>112-15-2 | 50-70<br>10-30<br>10-30<br>1-10<br>1-5<br>1-5 |

\* This component is listed as a SARA Section 313 Toxic Chemical.

The following numbers have been used to register components of this product as trade secrets for the State of New Jersey: NJ 06-070-1067-5041P NJ 06-070-1067-5042P NJ 06-070-1067-5090P NJ 06-070-1067-5091P NJ 06-070-1067-5091P NJ 06-070-1067-5091P

NJ 06-070-1067-5092P

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients OSHA (PEL) OTHER (TLV) STLVER 0.1 mg/m3 TWA0.01mg/m3 TWA None Exposure Limits (STEL) Ingredients **ACGIH** OSHA (TLV) (PEL)

HAZARDS IDENTIFICATION

Toxicity:

May irritate eyes, skin, and gastrointestinal tract. Prolonged or repeated exposure may cause allergic skin reaction. Prolonged expoxure to silver may cause argyria which is a pigmentation of skin and other body tissue. Inhalation, ingestion, eyes, skin.

Primary Routes of Entry: Signs and Symptoms of Exposure:

Inhalation may produce allergic reactions in some individuals. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Eye contact may cause severe irritation, burning sensation, blurred vision. Skin contact may produce allergic reaction in some individuals.

Existing Conditions
Aggravated by Exposure:

None known

| Ingredients                                                                         | Literature Referenced<br>Target Organ and Other Health Effects                            | NTP                              | IARC                             | osha                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------------|
| SILVER Epoxy resin Epoxy resin Epoxy resin Amine hardener HARDENER Carbitol acetate | ALG EYE IRR RES SKI<br>ALG IRR<br>ALG IRR<br>NO Data<br>NO Data<br>NO Data<br>CNS IRR KID | NO<br>NO<br>NO<br>NO<br>NO<br>NO | NO<br>NO<br>NO<br>NO<br>NO<br>NO | NO<br>NO<br>NO<br>NO<br>NO<br>NO<br>NO |

Abbreviations

ALG Allergen EYE Eyes KID Kidney SKI Skin

CNS Central nervous system IRR Irritant RES Respiratory

MOR 001009

# FIRST AID MEASURES

Ingestion: Inhalation: Skin Contact: Do not induce vomiting. Keep individual calm. Seek medical attention immediately. Remove to fresh air. If symptoms persist, obtain medical attention. Remove contaminated clothing, wash immediately

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No.:

3880 Adhesive Electrically Conductive 30077

with soap and water. Wash contaminated clothing thoroughly before reuse. If irritation persists, obtain medical attention. Flush thoroughly with water. If irritation persists, obtain medical attention.

Eye Contact:

#### FIRE FIGHTING MEASURES

Flash Point: Recommended

Method: Pensky-Martens Closed Cup More than 200°F

Carbon dioxide, foam, dry chemical

Use self-contained breathing supply.

Extinguishing Agents: Carbon dioxide, foam, dry
Special Firefighting
Procedures: Use self-contained breath:
Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or
Explosion Hazards: None

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

#### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Take up with an inert absorbent. Store in a closed container until disposal.

#### HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer Handling:

Store below 80°F. Refrigerated storage (-40°F) is recommended to extend shelf life Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes. Avoid prolonged inhalation of mists or vapors.

#### EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Ventilation:

Wear chemical splash goggles.
Wear solvent resistant gloves.
Provide sufficient local exhaust ventilation to maintain exposure below TLY(s).
If the TLV of the product is exceeded, a mechanical or self contained breathing appartus is

Respiratory

advised.

See Section 2 for Exposure Limits.

# PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor: Boiling Point:

Silver liquid\paste Faint epoxy More than 300°F Does not apply Not available 2.44

Solubility in Water: Specific Gravity Volatile Organic Compound (EPA Method 24)

3.04 %; 74.26 grams/liter Not available Not available

Vapor Pressure: Vapor Density: Evaporation Rate (Ether = 1)

Not available

### 10. STABILITY AND REACTIVITY

Stable

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal):

Will not occur Strong oxidizers Not available

Amines, aldehydes

# TOXICOLOGICAL INFORMATION

See Section 3.

#### 12. ECOLOGICAL INFORMATION

No data available

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No.:

3880 Adhesive Electrically Conductive 30077

#### DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Do not landfill. Dispose of commercial material and empty containers through a licensed/permitted disposal contractor.

EPA Hazardous Waste

Number

D011 / TCLP hazardous when disposed of per 40 CFR 261.24 (Silver).

#### <u> 14.</u> TRANSPORTATION INFORMATION

Unrestricted

Unrestricted

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or
Division:
Identification Number:
Marine Pollutant:

None None

IATA

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

2

2\* 1

#### REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive

harm. epichlorohydrin

# OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard:
Fire Hazard:
Reactivity Hazard:
Specific Hazard:

Does not apply

Estimated HMIS(R) Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazards:
Personal Protection:

See Section 8.

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Gary Pierson Health and Safety Specialist Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 (860) 571-5100 January 27, 1999 Revision: 0005

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100

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### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Loctite(R) 509 Gasket Eliminator(R) Flange Sealant 21525

Item No.: Product Type:

Anaerobic Adhesive

# COMPOSITION, INFORMATION ON INGREDIENTS

Rec. 12/4/00 Styl

| Ingredients                                                                                                                                    | CAS No.                                                     | 8                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------|
| Urethane Methacrylate Resin<br>Substituted hydroxyalkyl                                                                                        | Proprietary                                                 | 55-60                                 |
| methacrylate<br>Poly(ethylene)                                                                                                                 | Proprietary<br>9002-88-4                                    | 20-25<br>15-20                        |
| SILTCA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE<br>Polyglycol dimethacrylate<br>1-Acetyl-2-phenylhydrazine<br>CUMENE HYDROPEROXIDE*<br>SACCHARIN | 112945-52-5<br>25852-47-5<br>114-83-0<br>80-15-9<br>81-07-2 | 1-3<br>1-3<br>0.1-1<br>0.1-1<br>0.1-1 |

<sup>\*</sup> This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA)<br>Ingredients                                  | ACGIH<br>(TLV)       | OSHA<br>(PEL)       | OTHER                                                   |
|-----------------------------------------------------------------------|----------------------|---------------------|---------------------------------------------------------|
| SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE<br>CUMENE HYDROPEROXIDE | 10 mg/m3 TWA<br>None | 6 mg/m3 TWA<br>None | 3 mg/m3 TWA<br>resp. dust<br>lppm(6mg/m3)<br>Skin(WEEL) |
| Exposure Limits (STEL) Ingredients                                    | ACGIH<br>(TLV)       | OSHA<br>(PEL)       |                                                         |

#### HAZARDS IDENTIFICATION

Toxicity:
Primary Routes of Entry:
Signs and Symptoms
of Exposure:

Possible mild eye irritant. None known

May cause dermatitis on prolonged contact with sensitive individuals.

Existing Conditions
Aggravated by Exposure:

None known

| Ingredients                                                                                                                             | Literature Referenced                 | Car                  | cinog                       | en                         |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|-----------------------------|----------------------------|
|                                                                                                                                         | Target Organ and Other Health Effects | s NTP                | IARC                        | OSHA                       |
| Urethane Methacrylate R<br>Substituted hydroxyalk                                                                                       | esin No Data                          | NO                   | NO                          | NO                         |
| methacrylate                                                                                                                            | ALG IRR                               | NO                   | NO                          | NO                         |
| Poly(ethylene)                                                                                                                          | NTO                                   | NO                   | N/A                         | NO                         |
| SILICA, AMORPHOUS, FUME.<br>CRYSTALLINE-FREE<br>POLYGIYCOL dimethacryla<br>1-Acetyl-2-phenylhydraz<br>CUMENE HYDROPEROXIDE<br>SACCHARIN | NUT                                   | NO<br>NO<br>NO<br>NO | N/A<br>NO<br>NO<br>NO<br>2B | NO<br>NO<br>NO<br>NO<br>NO |

#### Abbreviations

N/A Not Applicable
ALG Allergen
CNS Central nervous system
IRR Irritant
MUT Mutagen NUI Nuisance dust

2B Possibly carcinogenic to humans BLO Blood COR Corrosive KID Kidney NTO No Target Organs SOM Evidence of some carcinogenicity

## 4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm. Obtain medical attention. Does not apply Wash with soap and water. Flush at least 15 minutes with water.

Inhalation:

Skin Contact: Eye Contact:

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Product Name: Item No.:

Loctite(R) 509 Gasket Eliminator(R) Flange Sealant 21525

#### FIRE FIGHTING MEASURES

Flash Point: Recommended

More than 200°F

Method: Tag Closed Cup

Extinguishing Agents: Special Firefighting Procedures:

Carbon dioxide, foam, dry chemical

Not available

Hazardous Products formed by Fire or Thermal Decomp Irritating organic vapors Unusual Fire or Explosion Hazards: None

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

#### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak:

Soak up with an inert absorbent. Store filled, closed container until disposal. Store in partly

# HANDLING AND STORAGE

Safe Storage: (Contact Loctite Customer Handling:

Store below  $100^{\circ}F$  Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes.

#### EXPOSURE CONTROLS, PERSONAL PROTECTION 8.

Safety glasses or goggles. Rubber or plastic gloves. Does not apply Not available

Eyes: Skin: Ventilation:

See Section 2 for Exposure Limits.

# PHYSICAL AND CHEMICAL PROPERTIES

Blue liquid Mild

Appearance: Odor: Boiling Point:

More than 300°F Does not apply Slight 1.12

pH: Solubility in Water: Specific Gravity Volatile Organic Compound (EPA Method 24)

12.88%; 131.4 grams per liter Less than 5mm Not available

Vapor Pressure: Vapor Density: Evaporation Rate (Ether = 1)

Not available

# 10. STABILITY AND REACTIVITY

Stable

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions\_to Avoid:

Will not occur None

Not available

Hazardous Decomposition Products (non-thermal):

None

#### 11. TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg.

#### ECOLOGICAL INFORMATION 12.

No data available

#### DISPOSAL CONSIDERATIONS

Recommended methods of

disposal: EPA Hazardous Waste

Incinerate following EPA and local regulations.

Number

NH - Not a RCRA Hazardous Waste Material

# 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name:

Unrestricted

MOR 001013

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Product Name: Item No.:

Loctite(R) 509 Gasket Eliminator(R) Flange Sealant 21525

Unrestricted

Hazard Class or Division: Identification Number: Marine Pollutant:

None None

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

### 15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Ethylene Oxide

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

### 16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

Does not apply

1

1 \*

Estimated HMIS(R) Code:

Health Hazard:

Flammability Hazard: Reactivity Hazards: Personal Protection:

See Section 8.

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist: Safety, Health&Regulatory Affairs
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
January 27, 1999
Revision: 0010

08/14/00

ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

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271(TM) High Strength Threadlocker 27131

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

271 (TM) High Strength Threadlocker

Item No.:

27131

Product Type:

Anaerobic

# 2. COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                                                | CAS No.                                                    | 98                                    |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------|
| Polyglycol dimethacrylate Bisphenol A fumarate resin SACCHARIN CUMENE HYDROPEROXIDE* N,N-Dialkyltoluidines | 25852-47-5<br>39382-25-7<br>81-07-2<br>80-15-9<br>613-48-9 | 65-70<br>20-25<br>3-5<br>1-3<br>0.1-1 |

<sup>\*</sup> This component is listed as a SARA Section 313 Toxic Chemical.

# Ingredients which have exposure limits

| Exposure Limits (TWA)  | ACGIH | OSHA  | OTHER                              |
|------------------------|-------|-------|------------------------------------|
| Ingredients            | (TLV) | (PEL) |                                    |
| CUMENE HYDROPEROXIDE   | None  | None  | <pre>lppm(6mg/m3) Skin(WEEL)</pre> |
| Exposure Limits (STEL) | ACGIH | OSHA  |                                    |
| Ingredients            | (TLV) | (PEL) |                                    |

#### 3. HAZARDS IDENTIFICATION

Toxicity:

Eye irritant.

Estimated oral LD50 more than 5000mg/kg Estimated dermal LD50 more than 2000mg/kg

Primary Routes of Entry:

None known

Signs and Symptoms

of Exposure:

May cause dermatitis on prolonged contact in sen-

sitive individuals.

Existing Conditions

Aggravated by Exposure:

None known

27131

|             | Literature Referenced                 | Carcinogen    |
|-------------|---------------------------------------|---------------|
| Ingredients | Target Organ and Other Health Effects | NTP IARC OSHA |

| Polyglycol dimethacrylate  | ALG IRR | МО | NO | NO |
|----------------------------|---------|----|----|----|
| Bisphenol A fumarate resin | ALG IRR | NO | ИО | ИО |
| SACCHARIN                  | NTO     | NO | 2B | ИО |

LOCTITE CORPORATION

08/14/00

ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

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Product Name:

271(TM) High Strength Threadlocker

Item No.:

MOR 001015

3. HAZARDS IDENTIFICATION

(continued)

CUMENE HYDROPEROXIDE

ALG CNS COR IRR MUT

NO NO NO

N, N-Dialkyltoluidines \_\_\_\_\_\_

NTO

NO NO NO

Abbreviations

2B Possibly carcinogenic to humans ALG Allergen

COR Corrosive

CNS Central nervous system

IRR Irritant

MUT Mutagen

NTO No Target Organs

4. FIRST AID MEASURES

Ingestion:

Do not induce vomiting. Keep individual calm.

Obtain medical attention.

Inhalation: Skin Contact: Does not apply Flush with water.

Eye Contact:

Flush at least 15 minutes with water. Obtain

medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:

More than 200°F

Method: Tag Closed Cup

Recommended

Extinguishing Agents:

Carbon dioxide, foam, dry chemical

Special Firefighting

Procedures:

Not available

Hazardous Products formed

by Fire or Thermal Decomp Irritating organic vapors

Unusual Fire or

Explosion Hazards:

None

Explosive Limits:

(% by volume in air) Lower Not available (% by volume in air) Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak:

Soak up in an inert absorbent. Store in a partly

filled, closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage:

Store below 100 deg. F

(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)

Handling:

Avoid prolonged skin contact. Keep away from eyes.

LOCTITE CORPORATION

ROCKY HILL, CONNECTICUT 06067

EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Page 03 of 04

08/14/00

Product Name:

271 (TM) High Strength Threadlocker

Item No.:

27131

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

MOR 001016

Eyes: Skin:

Safety glasses or goggles.

Ventilation:

Neoprene, rubber, or butyl rubber gloves.

Does not apply

Respiratory

Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Red liquid

Odor:

Mild

Boiling Point:

More than 300°F Does not apply

pH:

Slight

Solubility in Water: Specific Gravity

1.10 at 80°F

Volatile Organic Compound

(EPA Method 24)

12.0%; 132 g/1

Vapor Pressure:

Less than 5mm at 80°F

Vapor Density:

Not available

Evaporation Rate

(Ether = 1)

Not available

10. STABILITY AND REACTIVITY

Stability:

Stable

Hazardous Polymerization: Will not occur

Incompatibility:

None

Conditions to Avoid:

Not available

Hazardous Decomposition

Products (non-thermal):

None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

DISPOSAL CONSIDERATIONS 13.

Recommended methods of

disposal:

Incinerate following EPA and local regulations.

EPA Hazardous Waste

Number

NH - Not a RCRA Hazardous Waste Material

LOCTITE CORPORATION

08/14/00

Page 04 of 04

MOR 001017

ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Product Name:

271(TM) High Strength Threadlocker

Item No.:

27131

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name:

Unrestricted

Hazard Class or

Division:

Unrestricted

Identification Number: Marine Pollutant:

None None

Proper Shipping Name:

Unrestricted Unrestricted

Class or Division: UN or ID Number:

None

8/22/00 10:26 AM

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15. REGULATORY INFORMATION

This product contains Saccharin. No prop65 hazard CA Proposition 65:

warning is necessary if this product is used as

reasonably anticipated.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

1 Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard:

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1 1 Flammability Hazard: Reactivity Hazards: 1

Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By:

Stephen Repetto

Research Chemist; Safety, Health&Regulatory Affairs Title:

Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067

(860) 571-5100 (24hr.) Phone:

Revision: 0027 January 27, 1999 Revision Date:

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> > MOR 001018

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910

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18:46:55

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# MATERIAL SAFETY DATA SHEET

Page 1 of 5

Sample for Cat MSS

# CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Output(TM) 3151 Thermally Conductive Adh.

0.1 - 1

0.1 - 1

Item No.:

18843

Product Type:

Glass

Substituted silane

UV/Heat Cure

# COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients CAS No. % 21645-51-2 65-70 Aluminum hydroxide, hydrated Polyurethane methacrylate Proprietary 15-20 5-10 Hydroxyalkyl methacrylate 868-77-9 Hydroxyalkyl methacrylate 27813-02-1 1-3 79-41-4 1-3 METHACRYLIC ACID ACRYLIC ACID\* 79-10-7 0.1 - 1tert-BUTYL PEROXYBENZOATE 614-45-9 0.1 - 1Dyed melamine resin 39277-28-6 0.1 - 124650-42-8 0.1 - 1Photoinitiator 0.1 - 1SACCHARIN 81-07-2

The polyurethane methacrylate resin is registered with the state of New Jersey as a trade secret: NJ TSRN 06-070-1067-5068P.

65997-17-3

2530-85-0

#### Ingredients which have exposure limits

| Exposure Limits (TWA) Ingredients | ACGIH<br>(TLV)  | OSHA<br>(PEL)                            | OTHER           |
|-----------------------------------|-----------------|------------------------------------------|-----------------|
| Aluminum hydroxide, hydrated      | 10 mg/m3 dust   | <pre>15 mg/m3 dust 5 mg/m3 respir.</pre> | None            |
| Hydroxyalkyl methacrylate         | None            | None                                     | 3 ppm ceiling   |
| Hydroxyalkyl methacrylate         | None            | None                                     | l ppm TWA       |
|                                   |                 |                                          | 3 ppm STEL      |
| METHACRYLIC ACID                  | 20 ppm TWA      | 20 ppm TWA skin                          | 4 ppm skin      |
|                                   | 70 mg/m3        | 70 mg/m3 skin                            | 10 ppm skinSTEL |
| ACRYLIC ACID                      | 2 ppm TWA skin  | 10 ppm TWA skin                          | l ppm TWA skin  |
|                                   | 5.9 mg/m3 skin  | 30 mg/m3 skin                            | 3 ppm STEL skin |
| Glass                             | 10 mg/m3(inhal) | 15 mg/m3(total)                          | None            |
|                                   | 3 mg/m3(resp)   | 5 mg/m3(resp)                            |                 |

<sup>\*</sup> This component is listed as a SARA Section 313 Toxic Chemical.

| LOCTITE CORPORATION                       | 1001 TROUT BROOK CROSSING                                            | TOGUED 11 (O/ (O) | _          |
|-------------------------------------------|----------------------------------------------------------------------|-------------------|------------|
| LOCITIE CORPORATION                       | ROCKY HILL, CT 06067-3910                                            |                   | l.         |
|                                           |                                                                      |                   | 1          |
|                                           | MATERIAL SAFETY DATA SHEET                                           | Page 2 of 5       | ţ          |
| Product Name:<br>Item No.:                | Output(TM) 3151 Thermally Conduct 18843                              | •                 | 1:         |
| 2. COMPOSITION, INFORMA                   | ATION ON INGREDIENTS                                                 | (continued)       | ı          |
|                                           |                                                                      |                   | •          |
| Exposure Limits (STEL) Ingredients        | ACGIH OSHA<br>(TLV) (PEL)                                            | !                 | 1          |
| 3. HAZARDS IDENTIFICATI                   | <u>on</u>                                                            | 1                 | t          |
| Toxicity:                                 | Liquid is an eye and skin irritan                                    | t.                | ķ          |
|                                           | Eye irritation may be severe.                                        |                   |            |
|                                           | Vapors may irritate eye, nose and May be harmful if swallowed. May o |                   | Î          |
|                                           | liver damage.                                                        | eduse kidney of   |            |
| Primary Routes of Entry:                  | Skin and eye contact, inhalation. absorbtion.                        |                   | ì          |
| Signs and Symptoms                        |                                                                      | Į.                |            |
| of Exposure:                              | Irritation of eyes, skin, nose or                                    | <u> </u>          | ŀ          |
|                                           | cause severe dermatitis on prolong                                   |                   |            |
| Existing Conditions                       | sensitive individuals.                                               | 1                 | i .<br>5   |
| Aggravated by Exposure:                   | Acrylic acid: Upper respiratory ar                                   |                   | į          |
| , and                                     | dermatitis                                                           |                   |            |
| L                                         | iterature Referenced                                                 | Carcinogen        | <b>}</b> . |
|                                           | arget Organ and Other Health Effects                                 |                   | ļ ·        |
| Aluminum hydroxide, hydra                 | ted IRR LUN RES                                                      | NO NO NO          | i i        |
| Polyurethane methacrylate                 |                                                                      |                   |            |
| resin                                     | No Data                                                              | NO NO NO          |            |
| Hydroxyalkyl methacrylate                 |                                                                      | NO NO NO          |            |
| Hydroxyalkyl methacrylate                 |                                                                      | NO NO NO          |            |
| METHACRYLIC ACID                          | ALG COR IRR                                                          | NO NO NO          |            |
| ACRYLIC ACID<br>tert-BUTYL PEROXYBENZOATE | ALG COR IRR KID LIV<br>CNS IRR MUT                                   | NO N/A NO         |            |
| Dyed melamine resin                       | No Data                                                              | NO NO NO          |            |
| Photoinitiator                            | NTO                                                                  | NO NO NO          |            |
| SACCHARIN                                 | NTO                                                                  | YES 2B NO         |            |
| Glass                                     | ALG RES                                                              | NO NO NO          |            |
| Substituted silane                        |                                                                      | NO NO NO          | 1          |
|                                           |                                                                      |                   |            |
| Abbreviations                             |                                                                      | 1                 | i i        |
| N/A Not Applicable                        | 2B Possibly carcinog                                                 |                   |            |
| ALG Allergen                              | CNS Central nervous s                                                |                   |            |
| COR Corrosive                             | IRR Irritant                                                         |                   | 1          |
| KID Kidney                                | LIV Liver                                                            | i                 |            |
| LUN Lung                                  | MUT Mutagen                                                          | !                 |            |
| NTO No Target Organs                      | RES Respiratory                                                      | 1                 | F !        |

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 LOCTITE CORPORATION ISSUED 11/24/99 1 1 1 1 18:46:55 EMERGENCY PHONE: (860) 571-5100 FAX: (860) 571-5465 ; 1. MATERIAL SAFETY DATA SHEET Page 3 of 5 Product Name: Output(TM) 3151 Thermally Conductive Adh. 1 11 Item No.: 18843 4. FIRST AID MEASURES Do not induce vomiting. Keep individual calm. Ingestion: 1 1. Obtain medical attention. 1 1: Inhalation: Remove to fresh air. If symptoms persist, 1 obtain medical attention. 1 51 Skin Contact: Wash with soap and water. Flush with water at least 15 minutes. Obtain Eye Contact: medical attention. 5. FIRE FIGHTING MEASURES Flash Point: More than 200°F Method: Tag Closed Cup Recommended . Extinguishing Agents: Carbon dioxide, foam, dry chemical Special Firefighting Procedures: Not available Hazardous Products formed by Fire or Thermal Decomp Irritating organic vapors Unusual Fire or Explosion Hazards: None Explosive Limits: 1 1 2 ... (% by volume in air)Lower 2.0% Acrylic acid (% by volume in air)Upper 8.0% Acrylic acid 6. ACCIDENTAL RELEASE MEASURES 1.14 Steps to be taken in case 1 x 1 of spill or leak: Maintain adequate ventilation. 1 1 Soak up in an inert absorbent. Store in a partly 1 14 filled, closed container until disposal. 1 116 7. HANDLING AND STORAGE . 11 Store below 90°F. Avoid exposure to light. 1 1 Safe Storage: (Contact Loctite Customer Service 1-800-243-4874 for shelf life information) 1 14 Avoid prolonged skin contact. Keep away from 1.1 Handling: eyes. Avoid prolonged breathing of vapors. 1 1.1 8. EXPOSURE CONTROLS, PERSONAL PROTECTION 1 1 Eyes: Safety glasses or goggles. Skin: Rubber or plastic gloves. 1 1: 1 1 Ventilation: Sufficient to maintain vapor concentration below ł Respiratory NIOSH/MSHA approved respirator if ventilation is inadequate. 1 1

See Section 2 for Exposure Limits.

| LOCTITE CORPORATION                       | 1001 TROUT BROOK CROSSING<br>ROCKY HILL, CT 06067-3910 | ISSUED 11/24/99<br>18:46:55 | !                                     |
|-------------------------------------------|--------------------------------------------------------|-----------------------------|---------------------------------------|
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|                                           | MATERIAL SAFETY DATA SHEET                             | Page 4 of 5                 | i <b>]</b>                            |
| Product Name: Item No.:                   | Output(TM) 3151 Thermally Condu                        | ective Adh.                 | 1 1                                   |
| 9. PHYSICAL AND CHEMICAL                  | PROPERTIES                                             |                             | ! <b>!</b>                            |
| Appearance:                               | Pink liquid                                            |                             | 1 <b>E</b>                            |
| Odor:                                     | Sharp, irritating                                      |                             | i <b>i</b>                            |
| Boiling Point:                            | More than 300°F                                        |                             | 1 1                                   |
| pH:                                       | Does not apply                                         |                             | 1 1                                   |
| Solubility in Water:.<br>Specific Gravity | Slight<br>1.8                                          |                             | ! !                                   |
| Volatile Organic Compound                 | 1.0                                                    |                             | . 1                                   |
| (EPA Method 24)                           | Not available                                          |                             | ĭ                                     |
| Vapor Pressure:                           | Less than 3mm at 80°F                                  |                             |                                       |
| Vapor Density:                            | Not available                                          |                             | ļ.                                    |
| Evaporation Rate                          | W. 6                                                   |                             | 1 1                                   |
| (Ether - 1)                               | Not available                                          |                             | <b>.</b>                              |
| 10. STABILITY AND REACTIV                 | ITY                                                    |                             | : 1                                   |
| Stability:                                | Stable                                                 |                             | 1 1                                   |
| Hazardous Polymerization:                 | Will not occur                                         |                             |                                       |
| Incompatibility:                          | Some acids, bases, oxidizing ago                       |                             | 1 1                                   |
|                                           | agents, some free radical initia                       |                             | 1 7                                   |
| Conditions to Avoid:                      | peroxides, mild steel (other than Not available        | an substrates).             | 1                                     |
| Hazardous Decomposition                   | Not available                                          |                             | 1 1                                   |
| Products (non-thermal):                   | None                                                   |                             |                                       |
| 11. TOXICOLOGICAL INFORMA                 | TION                                                   |                             | ; <b>1</b> 1                          |
|                                           | Estimated oral LD50 more than 50                       | 100 mg/kg                   | .                                     |
|                                           | Estimated dermal LD 50 more than                       | 9 9                         | 111                                   |
| 12. ECOLOGICAL INFORMATIO                 | <u>n</u>                                               |                             | 1 11                                  |
|                                           | No data available                                      |                             | [ <b>[</b> :1                         |
| 13. DISPOSAL CONSIDERATIO                 | MC                                                     |                             |                                       |
|                                           | M <u>5</u>                                             |                             | ; <b>1</b> -1                         |
| Recommended methods of                    | Incinemets fellowing BDA and la                        |                             | 1 1 1                                 |
| disposal:<br>EPA Hazardous Waste          | Incinerate following EPA and loa                       | cal regulations.            | ; <b>†</b> #                          |
| Number                                    | NH - Not a RCRA Hazardous Waste                        | Material                    | 1 1 1                                 |
| 14. TRANSPORTATION INFORM                 | ATION                                                  |                             | 1 1 1                                 |
|                                           | ***************************************                |                             |                                       |
| DOT (49 CFR 172)                          |                                                        |                             |                                       |
| Domestic Ground Transport                 | Unrestricted                                           |                             | <b>[ ]</b>                            |
| Proper Shipping Name:<br>Hazard Class or  | ontestricted                                           |                             | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Division:                                 | Unrestricted                                           |                             | 1 1 1                                 |
| Identification Number:                    |                                                        | MOR 001022                  | 1:1                                   |
| Marine Pollutant:                         | None                                                   | IVIOR OUT OF                | 1 11                                  |
|                                           |                                                        |                             |                                       |

1001 TROUT BROOK CROSSING ISSUED 11/24/99 LOCTITE CORPORATION ROCKY HILL, CT 06067-3910 18:46:55 EMERGENCY PHONE: (860) 571-5100 FAX: (860) 571-5465 MATERIAL SAFETY DATA SHEET Page 5 of 5 Output(TM) 3151 Thermally Conductive Adh. Product Name: Item No.: 14. TRANSPORTATION INFORMATION (continued) IATA . 1 Proper Shipping Name: Unrestricted Class or Division: Unrestricted 1 1 UN or ID Number: None 1 1 15. REGULATORY INFORMATION WARNING: This product contains chemicals known to CA Proposition 65: the State of California to cause cancer , 1 and birth defects or other reproductive ļ k Ethylene oxide, toluene diisocyanate toluene, propylene oxide This product contains Saccharin. No Prop65 hazard 1 1 warning is necessary if this product is used as reasonably anticipated. 16. OTHER INFORMATION Estimated NFPA(R) Code: 1 1 1 Health Hazard: 2 1 1 1 Fire Hazard: 1 1 1:1 1 11 Reactivity Hazard: 1 1 11 Specific Hazard: Does not apply Estimated HMIS(R) Code: 1 t t Health Hazard: 2\* . [6] 11 Flammability Hazard: l 1 1:1 Reactivity Hazards: 1 1 1 Personal Protection: See Section 8. NFPA is a registered trademark of the National Fire Protection Assn. 1 11 HMIS is a registered trademark of the National Paint and Coatings Assn. 1 1:1 Prepared By: Stephen Repetto 1 1:1 Research Chemist - Safety, Health & Regulatory Affairs Title: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 1 11 Company:

(860) 571-5100

January 27, 1999

(24hr.) Phone:

Revision Date:

Revision: 0018

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ISSUED 6/04/01 FAX: (860)

Page 1 of

3

MATERIAL SAFETY DATA SHEET

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Item No.: Product Type: 3870 Thermally Conductive Adhesive --High Modulus 23978 UV-Heat Cure Adhesive

### 2. COMPOSITION. INFORMATION ON INGREDIENTS

| Ingredients                                                                                           | CAS No.                                              | 8                              |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------|
| ALUMINUM OXIDE Hydroxyalkyl methacrylate Urethane methacrylate resin Aromatic dimethacrylate ester    | 1344-28-1<br>27813-02-1<br>Proprietary<br>24448-20-2 | 70-75<br>10-15<br>10-15<br>1-3 |
| SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE<br>tert-BUTYL PEROXYBENZOATE<br>Photoinitiator<br>Glass | 112945-52-5<br>614-45-9<br>947-19-3<br>65997-17-3    | 1-3<br>0.1-1<br>0.1-1          |

Ingredients which have exposure limits

| Exposure Limits (TWA) Ingredients             | ACGIH<br>(TLV)                           | OSHA<br>(PEL)                            | OTHER                          |
|-----------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------|
| ALUMINUM OXIDE                                | 10 mg/m3 (A1)                            | 15mg/m3 Al dust                          | None                           |
| Hydroxyalkyl methacrylate                     | None                                     | 5mg/m3Al respir<br>None                  | 1 ppm TWA<br>3 ppm STEL        |
| SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE | 10 mg/m3 TWA                             | 6 mg/m3 TWA                              | 3 mg/m3 TWA                    |
| Photoinitiator<br>Glass                       | None<br>10 mg/m3(inhal)<br>3 mg/m3(resp) | None<br>15 mg/m3(total)<br>5 mg/m3(resp) | resp. dust<br>10 mg/m3<br>None |
| Exposure Limits (STEL) Ingredients            | ACGIH                                    | OSHA<br>(PEL)                            |                                |

### 3. HAZARDS IDENTIFICATION

Toxicity:

Eye, skin, and inhalation irritant. May irritate throat and stomach if swallowed. None known

Primary Routes of Entry: Signs and Symptoms of Exposure:

Irritation of eyes, skin, or respiratory system. Irritation of throat or stomach if swallowed.

Existing Conditions
Aggravated by Exposure: None known

| Ingredients                                                                                       | Literature Referenced<br>Target Organ and Other Health Effects |                      | Cinog                 | en<br>OSHA           |  |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------|-----------------------|----------------------|--|
| ALUMINUM OXIDE<br>Hydroxyalkyl methacryla<br>Urethane methacrylate r<br>Aromatic dimethacrylate   | ester ALG IRR                                                  | NO<br>NO<br>NO       | NO<br>NO<br>NO<br>NO  | NO<br>NO<br>NO<br>NO |  |
| SILICA, AMORPHOUS, FUME<br>CRYSTALLINE-FREE<br>tert-BUTYL PEROXYBENZOA<br>Photoinitiator<br>Glass | NUI                                                            | NO<br>NO<br>NO<br>NO | N/A<br>NO<br>NO<br>NO | NO<br>NO<br>NO<br>NO |  |

#### Abbreviations

| N/A Not Applicable<br>CNS Central nervous<br>IRR Irritant<br>NUI Nuisance dust | system | ALG Allergen<br>COR Corrosive<br>MUT Mutagen<br>RES Respiratory | MOR 001024 |
|--------------------------------------------------------------------------------|--------|-----------------------------------------------------------------|------------|
|                                                                                |        |                                                                 |            |

#### 4. FIRST AID MEASURES

| Ingestion:                    | Do not induce vomiting. Keep individual calm. Obtain medical attention.                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| Inhalation:                   | Remove to fresh air. If symptoms persist, obtain                                                             |
| Skin Contact:<br>Eye Contact: | medical attention. Wash with soap and water. Flush at least 15 minutes with water. Obtain medical attention. |

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6/04/01 23:47:13 571-5465 ISSUED FAX: (860)

MATERIAL SAFETY DATA SHEET

Page 2 of 3

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Product Name: Item No.:

3870 Thermally Conductive Adhesive --High Modulus 23978

### FIRE FIGHTING MEASURES

Flash Point:

Recommended
Extinguishing Agents:
Special Firefighting
Procedures:
Hazardous Products formed
by Fire or Thermal Decomp
Not available
Irritating organic vapors; oxides of carbon, silicon. Tag Closed Cup

Unusual Fire or Explosion Hazards:

None

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

### 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Scrape up as much as possible. Store in a half-filled, closed container until disposal.

### HANDLING AND STORAGE

Safe Storage:
 (Contact Loctite Customer
Handling:

Store below  $40^{\circ}F$ . Service 1-800-243-4874 for shelf life information) Avoid skin or eye contact. Do not breathe vapors.

### EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Ventilation:

Safety glasses or goggles. Rubber or plastic gloves. Sufficeint to maintain vapor concentration below TLV.

Respiratory

Not available

See Section 2 for Exposure Limits.

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Light gray paste Mild

Odor: Boiling Point:

Not available Does not apply

Boiling Form:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Slight Approximately 2.5

11.24%; 556 grams per liter Less than 5 mm

Not available

Not available

#### STABILITY AND REACTIVITY

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal):

Stable Will not occur None

Not available

Methacrylic acid, phenol.

### 11. TOXICOLOGICAL INFORMATION

See Section 3.

#### 12. ECOLOGICAL INFORMATION

No data available

#### 13. DISPOSAL CONSIDERATIONS

Recommended methods of

Incinerate following EPA and local regulations.

disposal: EPA Hazardous Waste Number

NH - Not a RCRA Hazardous Waste Material

MOR 001025

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100

ISSUED 6/04/01 23:47:13 FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Page 3 of 3

Product Name: Item No.:

3870 Thermally Conductive Adhesive --High Modulus 23978

TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or
Division:
Identification Number:
Marine Pollutant:

Unrestricted

Unrestricted

None None

IATA

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer. Propylene oxide

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

Does not apply

Estimated HMIS(R) Code:
 Health Hazard:
 Flammability Hazard:
 Reactivity Hazards:
 Personal Protection: 211

See Section 8.

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By: Title: Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist - Health & Regulatory Affairs
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
February 12, 1999
Revision: 0005

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

ISSUED 3/09/01 23:50:30 FAX: (860) 571-5465

Page 1 of 3

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

LOW BREAKLOOSE PST 250ML TUBE

11415

Item No.: Product Type: Anaerobic pec. 843/19/01 Tmc-1/88086

COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients CAS No. B DIETHYL PHTHALATE
SILICA, MICA
Polyglycol dimethacrylate
Poly(tetrafluoroethylene)
Cellulose ester
CUMENE HYDROPEROXIDE\*
SILICA, AMORPHOUS, FUMED,
CRYSTALLINE-FREE
TITANIUM DIOXIDE 84-66-2 12001-26-2 25852-47-5 9002-84-0 9004-36-8 80-15-9 55-60 15-20 5-10 5-10

\* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

| Exposure Limits (TWA)                         | ACGIH        | OSHA                   | OTHER                                         |
|-----------------------------------------------|--------------|------------------------|-----------------------------------------------|
| Ingredients                                   | (TLV)        | (PEL)                  |                                               |
| DIETHYL PHTHALATE                             | 5 mg/m3 TWA  | 5 mg/m3 TWA            | None                                          |
| SILICA, MICA                                  | 3 mg/m3 TWA  | 20 mppcf               | None                                          |
| Poly(tetrafluoroethylene)                     | None         | None                   | AEL (DuPont)                                  |
| CUMENE HYDROPEROXIDE                          | None         | None                   | 5mg/m3 8hr dust<br>1ppm(6mg/m3)<br>Skin(WEEL) |
| SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE | 10 mg/m3 TWA | 6 mg/m3 TWA            | 3 mg/m3 TWA                                   |
| TITANIUM DIOXIDE                              | 10 mg/m3     | 15 mg/m3<br>Total dust | resp. dust<br>None                            |
| Exposure Limits (STEL)                        | ACGIH        | OSHA                   | ·                                             |
| Ingredients                                   | (TLV)        | (PEL)                  |                                               |

### HAZARDS IDENTIFICATION

Toxicity:

Estimated Oral LD50 greater than 5000 mg/kg. Estimated Dermal LD50 greater than 2000 mg/kg. Not Available

Primary Routes of Entry: Signs and Symptoms of Exposure:

May cause dermatitis on prolonged contact in sensitive individuals.

Existing Conditions

Aggravated by Exposure:

Mica: Respiratory

| Ingredients                                                                                                                                 | Literature Referenced                 | Car                        | cinog                             | en                         |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------|-----------------------------------|----------------------------|
|                                                                                                                                             | Target Organ and Other Health Effects | NTP                        | IARC                              | OSHA                       |
| DIETHYL PHTHALATE SILICA, MICA Polyglycol dimethacryla Poly(tetrafluoroethylen Cellulose ester CUMENE HYDROPEROXIDE SILICA, AMORPHOUS, FUME | NTO<br>ALG CNS COR IRR MUT            | NO<br>NO<br>NO<br>NO<br>NO | NO<br>NO<br>NO<br>N/A<br>NO<br>NO | NO<br>NO<br>NO<br>NO<br>NO |
| CRYSTALLINE-FREE                                                                                                                            | NUI                                   | NO                         | N/A                               | NO                         |
| TITANIUM DIOXIDE                                                                                                                            | IRR RES                               | NO                         | NO                                | NO                         |

### Abbreviations

N/A Not Applicable CNS Central nervous system IRR Irritant MUT Mutagen NUI Nuisance dust RES Respiratory

ALG Allergen COR Corrosive LUN Lung NTO No Target Organs REP Reproductive

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### 4. FIRST AID MEASURES

Ingestion: Inhalation: Do not induce vomiting. Obtain medical attention. Keep individual calm. Remove to fresh air. If symptoms persist, obtain

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100

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Page

**ISSUED** 

MATERIAL SAFETY DATA SHEET

Product Name: Item No.:

LOW BREAKLOOSE PST 250ML TUBE 11415

Skin Contact: Eye Contact:

medical attention. Flush with water. Flush with water.

### FIRE FIGHTING MEASURES

Flash Point:

More than 200°F Method: Tag Closed Cup

Carbon dioxide, foam, dry chemical

Flash Point:
Recommended
Extinguishing Agents:
Special Firefighting
Procedures:
Hazardous Products formed
by Fire or Thermal Decomp
Unusual Fire or
Explosion Hazards:
None
More than 200°F
Carbon dioxide,
Toxic fluorides.

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper

0.75% at 187°C Diethyl phthalate Decomposes Diethyl phthalate

### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Soak up with an inert absorbent. Store filled, closed container until disposal. Store in partly

### HANDLING AND STORAGE

Safe Storage:
 (Contact Loctite Customer
Handling:

Store below 100 deg. F Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Do not use for pro-longed periods in confined area without adaquate ventilation.

### EXPOSURE CONTROLS, PERSONAL PROTECTION

Safety glasses or goggles recommended. Rubber or plastic gloves recommended. Local ventilation recommended for prolonged use.

Eyes: Skin: Yentilation:

Respiratory

Not available

See Section 2 for Exposure Limits.

#### PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

White Paste

Odor: Boiling Point:

Mild

Greater than 300°F Does not apply Slight 1.32 at 72°F

Boiling Point:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Not available Less than 10mm at 80°F Not available

Not Available

### STABILITY AND REACTIVITY

Number

Stable Will not occur None Not available

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal):

None

### 11. TOXICOLOGICAL INFORMATION

See Section 3.

### 12. ECOLOGICAL INFORMATION

No data available

MOR 001028

#### 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal:
EPA Hazardous Waste

Incinerate following EPA and local regulations.  ${\tt U088}$  - Hazardous waste per  ${\tt 40CFR}$   ${\tt 261.11(3)}$  / Diethyl Phthalate

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Page

ISSUED

MATERIAL SAFETY DATA SHEET

Product Name: Item No.:

LOW BREAKLOOSE PST 250ML TUBE 11415

TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or
Division:
Identification Number:
Marine Pollutant: Unrestricted Unrestricted

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None None

1

15. REGULATORY INFORMATION

CA Proposition 65:

Not available

16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard:

Fire Hazard: Reactivity Hazard: Specific Hazard:

Does not apply

See Section 8.

Estimated HMIS(R) Code: Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection:

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By: Title: Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist, Environmental Health & Safety
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
January 27, 1999 Revision: 0029

MOR 001029

### CHEMTRONICS INC.

Static Free Hand brand

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Company Address: 8125 Cobb Center Drive Kennesaw, GA 30152

> Product Information: 800-TECH-401 Customer Service:

800-645-5244

Emergency: Revision Date: (Chemirco) 800-424-9300

October 6, 1997

Product Identification

STATIC FREE™ IIAND GUARD™ (Liquid) (Formerly Hand Guard)

Product Code: C105, C805

| SECTION 2: COMPOSITION, INFORMATION ON INC Chemical Name | CAS#       | Wt. % Range |
|----------------------------------------------------------|------------|-------------|
| Deionized Water                                          | 7732-18-5  | 80.00-85.00 |
| Stearic Acid                                             | 57-11-4    | 6.00-10.00  |
| Isopropyl Palmitate                                      | 142-91-6   | 1.00-5.00   |
| Propylene Glycol                                         | 57-55-6    | 1.00-4.00   |
| Glyceral Stearate                                        | 31566-31-1 | 1.00-3.00   |

SECTION 3: ILAZARD IDENTIFICATION

Emergency Overview: Opaque, off-white cream. Nontoxic and nonhazardous. This product is not flammable.

Potential Health Effects

May cause slight irritation with prolonged contact. Eves: No acute or chronic effects from contact expected. Skin:

Ingestion: Man cause slight stomach upset if ingested in large quantities. Inhalation: No scute or chronic effects expected from prolonged contact.

Pre-Existing Medical Conditions Aggravated by Exposure: None known.

SECTION 4: FIRST AID MEASURES

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 13 minutes. Have eyes examined Eves: and tested by medical personnel if irritation develops or persists.

No acute chronic effects expected from prolonged contact. Skin:

Ingestion: Swallowing less than an ounce will not cause significant harm. For larger amounts, DO NOT induce vomiting, but give one or two glasses of water to drink and get medical attention.

Inhalation: No acute or chronic effects expected from prolonged contact.

SECTION 5: FIRE FIGITING MEASURES

Flash Point: None

LELJUEL: Not established (% by volume in air)

Extinguishing Media: Alcohol foam, carbon dioxide, or water spray are compatible when fighting fires in proximity to this material.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Scrape up spilled product and place in waste container for proper disposal.

SECTION 7: HANDLING AND STORAGE INFORMATION

Special precautions are usually not required. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

No published data are available on the exposure guidelines for the ingredients of this product.

Work/Hygienic Practices: Special precautions are usually not required.

NFPA and HMIS Codes: **NFPA** HMIS Health 0 0 Flammability 0 O Reactivity 0 0 Personal Protection

SECTION 9; PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Opaque cream

Odor: Non-descript

pH: NA

Vapor Pressure: NA

(Air 1)

Vapor Density: NA

(Air = 1)

Color: White to off-white

Solubility in Water: Miscible

Specific Gravity: (Water =1) 1.05

Evaporation Rate: >>1

(Butvi acetate=1):

Viscosity: 4900 cps @ Room temperature Percent Volatile: 85% by weight approximately.

Boiling Point: N/A Melting Point: N/A

MSDS #0707L

SECTION 10: STABILITY AND REACTIVITY

Stability: This product is stable.

Conditions to Avoid: None known.

Incompatibility: Strong oxidizing agents, acids or bases.

Products of Decomposition: Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: NA

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation:

No signs or symptoms indicative of an adverse health effect are

with this product.

Ingestion:

No signs or symptoms indicative of toxicity expected on contact

are expected.

Skin: No irritation expected.

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

SECTION 12: ECOLOGICAL INFORMATION Environmental Impact Information **Environmental Impact Data** Percent by weight No other information is available. CFC 0.0% VOC 0.0% HFC 0.0% HFC 0.0% CI. Solv. 0.0% ODP 0.0%

For more information call: 1-800-645-5244

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

SECTION 14: TRANSPORTATION INFORMATION - This product is not currently regulated under IATA or DOT.

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

Product does not contain any Section 313 listed chemicals.

SECTION 16: OTHER INFORMATION

Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.

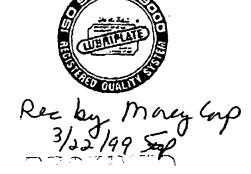
# FISKE BROTHERS REFINING COMPANY



### LUBRIPLATE DIVISION

### 1500 OAKDALE AVENUE TOLEDO, OHIO 43605

Phone: (419) 691-2491 Fax: (419) 693-3806



### Fax Transmittal

| Transmit To:      |                                     | Inc. 10 10 10          |
|-------------------|-------------------------------------|------------------------|
| Name:             | andy anderson                       | Fred State and Company |
| Firm: _           | Morey Co.                           |                        |
| City: _           | (hica go                            |                        |
| Fax No: _         | 630-960-7484                        |                        |
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| Date:             | 3/18                                |                        |
| Time: _           | 2:10 pm.                            |                        |
| Total number of p | pages sent (including transmittal): | 3                      |
| Comments:         |                                     |                        |
|                   | MSDS for                            |                        |
|                   | Leebryplate DS-ES                   |                        |
|                   | <b>y</b>                            |                        |
|                   |                                     |                        |
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|                   |                                     |                        |
|                   |                                     |                        |

If you do not receive all the pages, or they are not legible, please call back as soon as possible.

### Section 1

PRODUCT NAME OR NUMBER

LUBRIPLATE DS-ES

GENERIC/CHEMICAL NAME:

Petroleum Lubricating Grease

Manufacturer's Name Fiske Brothers Refining Co.

Address

1500 Oakdale Ave., Toledo, Ohio 43605 - 129 Lockwood St., Newark, NJ 07105

**FORMULA** 

Lithium Soap, Mineral Oil and Additives

USDA AUTHORIZATION:

H-2

Emergency Telephone Number

1-800-255-3924 - CHEM-TEL (24 hour)

Telephone Number for Information

419-691-2491 - Toledo Office

### Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components

**OSHA PEL** 

ACGIH TLV

Other Limits Recommended

% (optional)

Non-hazardous

Hazardous Material Identification System (HMTS): Not a Controlled Product under (WHMIS) - Canada Health - 1.

Flammability - 1,

Reactivity 0

Special Protection: See Section 9

### Section 3 - Health Hazard Data

Threshold Limit Value

5 mg/m<sup>3</sup> for oil mist in air. OSHA Regulation 29 CFR 1910.1000

Effects of Overexposure Prolonged or repeated skin contact may cause skin irritation. Product contacting the eyes may cause eye irritation. Human health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists and fumes should be minimized. This product has a low order of acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause alld to severe pulmonary injury.

Carcinogenicity:

NTP? No

IARC Monographs? No

OSHA Regulated? No

### Section 4 - Emergency and First Aid Procedures

EYE CONTACT: Flush with clear water for 15 minutes or until irritation subsides. If irritation persists, consult a physician.

SKIN CONTACT: Remove any contaminated clothing and wash with soap and warm water. If injected by high pressure under skin, regardless of the appearance or its size, contact a physician IMMEDIATELY. Delay may cause loss of affected part of the body.

INHALATION: Vapor pressure is very low and inhalation at room temperature is not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician.

INGESTION: If ingested, call a physician immediately. Do not induce vomiting.

### Section 5 - Fire and Explosion Hazard Data

Flash Point (Method Used)

COC - 425°F

Flammable Limits

LEL 0.9%

**UEL 7.0%** 

Extinguishing Media

Foam, Dry Chemical, Carbon Dioxide or Water Spray (Fog)

Special Fire Fighting Procedures

Cool exposed containers with water. Use air-supplied breathing equipment for

enclosed or confined spaces.

Unusual Fire and Explosion Hazards

Do not store or mix with strong oxidants. Empty containers retain residue.

Do not cut, drill, grind, or weld, as they may explode.

| ,                       | Section            | 6 - Physical/Chemical Characteristics |                                         |
|-------------------------|--------------------|---------------------------------------|-----------------------------------------|
| Boiling Point           | >550°F             | Specific Gravity (H 20 = 1)           | 0.91                                    |
| Vapor Pressure (mm Hg.) | <0.01              | Melting Point                         | Semi-solid                              |
| Vapor Density (AIR = 1) | >5                 | Evaporation Rate                      | <0.01                                   |
| Solubility in Water     | Negligible         | (Butyl Acetate = 1)                   | لرزرا بدأ بناسا                         |
| Annearance and Odor     | Off-white prease 1 | with mineral oil odor                 | ا<br>ا دائمنانی کرد در معادر استان در ا |

Section 7 - Rea vity Data

Stability

Unstable Stable X Caditions to Avoid

N/A

Incompatibility (Materials to Avoid)

Avoid contact with strong exidents like liquid chlorine, concentrated exygen.

Hazardous Decomposition or Byproducts May form SO 2. If incomplete combustion, Carbon Monoxide.

Hazardous Polymerization

May Occur

Conditions to Avoid N/A

Will Not Occur X

### Section 8 - Spill or Leak Procedures

Steps to be taken in case material is released or spilled

Scrape up grease, wash remainder with suitable petroleum solvent or add absorbent. Keep petroleum products out of sewers and water courses. Advise authorities if product has entered or may enter sewers and water courses.

Waste disposal method

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved waste disposal facility or site.

SARA/TITLE III, Section 313 Status - Zinc Compounds - <5%

Section 9 - Special Protection Information

Respiratory Protection (Specify type)

Normally not needed

Ventilation

Local Exhaust

Used to capture fumes and vapors

Special NA

Mechanical (General)

Other N/A

Protective Gloves Use oil-resistant gloves, if needed.

Eye Protection If chance of eye contact, wear goggles.

Other Protective Equipment

Use oil-resistant apron, if needed.

### Section 10 - Special Precautions

Precautions to be taken in handling and storing

Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidants.

Other Precautions

Remove oil-soaked clothing and launder before reuse. Cleanse skin thoroughly after contact.

The above information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Fiske Brothers Refining Company. The data on these sheets relates only to the specific material designated herein. Fiske Brothers Refining Company assumes no legal responsibility for use or reliance upon this data.

Prepared by: James R. Kontak Date Prepared: January, 1999



### FISKE BROTHERS REFINING COMPANY

### LUBRIPLATE DIVISION

### 1500 OAKDALE AVENUE TOLEDO, OHIO 43605

Phone: (419) 691-2491 Fax: (419) 693-3806



### **Fax**

| T | ra | ns | mi | it | To | • |
|---|----|----|----|----|----|---|
|   |    |    |    |    |    |   |

To:

'Tom O'Donnell'

City, State:

Tech info DS-ES

Fax number:

+1 (419) 1-630-887-2101

From:

Mike Kontak

Date/Time:

3/15/99 4:28:43 PM

Pages:

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Note:

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THE MUNICIPALITY



EXECUTIVE OFFICE: NEWARK, N.J. 07105 PHONE: 201-589-9150 FAX: 201-589-4432

MIDWEST OFFICE: TOLECIO, OH 49605

PHONE: 419-691-2491 FAX: 419-693-3806

### LUBRIPLATE DS-ES LUBRICANT

LUBRIPLATE DS-ES Lubricant is developed specifically for the electrical and electronics industry. LUBRIPLATE DS-ES Lubricant is being used extensively in automotive switches and contact units where performance is exceeding all of the new safety standards set for this equipment.

LUBRIPLATE DS-ES Lubricant is also highly recommended as a bearing lubricant for electrical motors, spindles and other mechanical devices where low torque, high speeds and long life are essential. Due to the aniline point of this product, seal compatibility is excellent.

LUBRIPLATE DS-ES Lubricant is recommended in the Automotive Industry by these specifications or part numbers:

MS-3701 Chrysler/AMC MS-8677 ESB-MIC-158-A Ford Motor Company 5384-011 Delco-Remy Div., General Motors 1502-20007-D116 ITT Automotive Electrical Products Saginaw Steering Gear Div. General Motors 7809311 7813685 7826313 16109-5002 White Truck Group

LUBRIPLATE DS-ES Lubricant is recommended for:

Battery Posts - Head Lamps - Tail Lamps
Electrical Harness Plug Assemblies
Backup Lamp Connector Sockets
Electrical Switch Contacts - Radio Antenna Assemblies
Aircraft Switch Assemblies
High Voltage Breaker Assemblies
Connectors in the Primary Circuit of Solid-State Ign tion

### Advantages

- Exceptional oxidation resistance for extended operating life.

- Low Torque start-up capabilities especially in cold weather conditions.

- Excellent metal, rubber, and plastic compatibility.

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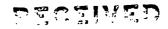
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### Typical Tests

| Type of Thickener                                          | Lithium               |
|------------------------------------------------------------|-----------------------|
| Worked Penetration @ 77°F                                  | 310 to 340            |
| NLGI No.                                                   | 1                     |
| ASTM Dropping Point                                        | 360°F/182℃            |
| Mineral Oil Viscosity SUS @ 100°F cSt @ 40°C Aniline Point | 200<br>39<br>219      |
| Norma Hoffman Oxidation Bomb Test                          | 3 psi Max./1,000 Hrs. |

| Packaging Available             | Part No.  |
|---------------------------------|-----------|
| Carton 24/14 oz. Cans           | L0137-001 |
| Carton 6/6 lb. Cans             | L0137-006 |
| 35 lb. Pail                     | L0137-035 |
| 120 lb., Quarter Size, Drum     | L0137-039 |
| 410 lb., Full Size, Drum        | L0137-040 |
| Carton 144/11/4 oz. Tubes (1x6) | LG137-087 |



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Printed in USA Revised 11/96

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tma= 1224256 per 70/12/01

MATERIAL SAFETY DATA SHEET

**ALPHA METALS** 600 Route 440 Jersey City, NJ 07304 Telephone: 201-434-6778 3

NUMBER: P086

REVISION: 01/21/97

### SECTION I - GENERAL INFORMATION

PRODUCT NAME

Lonco SLS 65 Flux

(NUMBER)

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CHEMICAL FAMILY

Mixture.

D.O.T HAZARD CLASS

Flammable liquid.

### SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENTS                                   | CAS<br>NUMBER           | WEIGHT<br>PERCENT | OSHA PEL                | ACGIH TLV               |
|-----------------------------------------------|-------------------------|-------------------|-------------------------|-------------------------|
| Isopropyl Alcohol(2-Propanol)                 | 67-63-0                 | 90-92             | 400 ppm<br>Stel 500 ppm | 400 ppm<br>Stel 500 ppm |
| Aliphatic Dibasic Ester<br>Dicarboxylic Acids | 1119-40-0<br>68937-72-4 | 4.0<br><2.5       | NE<br>NE                | NE<br>NE                |
|                                               |                         |                   |                         |                         |
|                                               | 1                       |                   |                         |                         |

### **SECTION III - PHYSICAL DATA**

(PUBLISHED or ESTIMATED VALUES)

BOILING POINT Deg. F.

180

SPECIFIC GRAVITY (H<sub>.</sub>O=1)

0.801

(760 mm Hg)

30

(@ 77 deg F) % VOLATILE by WEIGHT

90-92

VAPOR PRESSURE (mm Hg AT 20 Deg. C.)

VAPOR DENSITY (AIR=1)

>2

EVAPORATION RATE(BUAC=1) 2.3

SOLUBILITY IN WATER

Appreciable

pH (5% aqueous soln.)

3.4

APPEARANCE AND ODOR

Clear, colorless liquid, alcohol odor.

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air)

LEL:2.0 UEL:12.7

FLASH POINT Deg. F.

53 closed cup.

EXTINGUISHING MEDIA Alcohol type or all-purpose-type foam for large fires.

Carbon dioxide or dry chemical media for small fires.

# SECTION V(a) - HEALTH HAZARD DATA

(Symptoms/Effects of Overexposure)

INHALATION: Can cause irritation of the respiratory tract with coughing and

chest discomfort. High concentrations of vapor may cause

headache and drowsiness.

INGESTION: Slightly toxic. May cause abdominal discomfort, nausea,

vomiting and diarrhea. Drowsiness and/or loss of consciousness

may occur.

May cause minor irritation with itching and possible slight local SKIN: redness. Prolonged or repeated contact may cause defatting and

drying. Absorption; exposure to small quantities are not anticipated to cause adverse health effects. Widespread and prolonged exposure may result in the absorption of harmful amounts of material, leading to signs and symptoms as described for ingestion.

Causes irritation, may cause corneal injury.

LISTED CARCINOGENS: None of the materials in this product are listed in

NTP, IARC, or OSHA as carcinogens.

### SECTION V(b) - HEALTH HAZARD DATA

(Emergency & First Aid Procedures)

INHALATION Remove to fresh air. If not breathing give artificial respira-

tion. If breathing is difficult administer oxygen. Obtain

medical attention.

INGESTION If fully conscious give two glasses of water, INDUCE vomiting.

Never give anything by mouth to an unconscious person.

SKIN CONTACT Remove contaminated clothing. Wash with soap and water. If

irritation persists or if contact has been prolonged obtain

medical attention.

Immediately flush with water for several minutes. Obtain EYE CONTACT

medical attention.

### SECTION VI - REACTIVITY DATA

**STABILITY** 

CONDITIONS

Heat, sparks and open flames.

STABLE: X UNSTABLE:

TO AVOID

INCOMPATIBILITY

Strong oxidizing agents.

(Materials to Avoid)

**HAZARDOUS** 

Burning can produce carbon monoxide and/or carbon dioxide.

**DECOMPOSITION PRODUCTS** 

HAZARDOUS POLYMERIZATION

**CONDITIONS TO** 

WILL OCCUR: WILL NOT OCCUR:X

AVOID

None

SPECIAL FIRE FIGHTING PROCEDURES UNUSUAL FIRE AND EXPLOSION HAZARD

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Use NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water.

Vapors are heavier than air and may travel along ground. Never use welding torch on or near containers (even empty). May produce a floating fire hazard.

### SECTION VII - SPILL or LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ventilate if in enclosed area. Eliminate all ignition sources.

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent, or

other absorbent material and transfer to hood.

LARGE SPILL: See Section X.

٠,

WASTE DISPOSAL Destroy by approved incineration or deposit in approved landfill.

Must be in accordance with Federal, State, and Local Laws and Regulation

### **SECTION VIII - SPECIAL PROTECTION**

RESPIRATORY No special requirements with adequate ventilation present,

approved respiratory protective equipment used when vapor or

mist concentrations exceed applicable standards.

EYEWEAR Chemical type protective goggles.

Provide eye bath near work site.

CLOTHING/GLOVES Wear resistant gloves such as rubber, neoprene or plastic.

VENTILATION Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure below TLVs.

### **SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Observe precautions for a flammable liquid. Keep container closed when not in use. Store away from ignition sources in cool dry area. Use adequate ventilation. Read all container labeling.

Avoid the use of metal drum spigots. Use Polyethylene, Polypropylene or Teflon.

### **OTHER PRECAUTIONS:**

CONTAINERS: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

### **SECTION X - ADDITIONAL INFORMATION**

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: (continued) LARGE SPILL:

Persons not wearing protective equipment should be excluded from area. Dike area of spill to prevent spreading. Pump liquid to salvage tank. Take up remaining liquid with absorbent material. Shovel into containers.

### NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

---- REGULATORY INFORMATION ---

Toxic Substance Control Act (TSCA) Status: All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III (Section 313):
Components present in this product at a level which could require reporting under the statute are:

None

## **EMERGENCY TELEPHONE NUMBER**

CHEMTREC 1-800-424-9300 DAY or NIGHT

The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information of the use of any materials designated.





MOR 001043

Rec 10/1/99 504

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Tompany Address: 8125 Cobb Center Drive Kennesaw, GA 30152

Product Information: 800-TECH-401 Customer Service: 800-645-5244

CH-401 Emergency: 5-5244 Revision Da (Chemtrec) 800-424-9300

Revision Date: February 26, 1999

Product Identification

CHEMASK DA

Product Code: CDA1, CDA5, CDA8

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Product Ingredient Information
CAS#
Wt. % Range
Deionized water
7732-18-5
35.0-60.0
Acrylic polymer
mixture
25.0-50.0
Polymethane resin
mixture
1.0-5.0

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Viscous, opaque white liquid. This product is not flammable. Liquid may irritate eyes and skin under repeated or prolonged exposure Potential Health Effects.

Eves: Liquid and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation.

Skin: Contact causes skin irritation. Sensitizer - may cause allegic skin reaction

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach. May cause nausea, vomiting, and diarrhea.

Inhalation: High concentrations of vapors may cause headaches, nausea, dizziness, and respiratory irritation if inhaled.

Pre-Existing Medical Conditions Aggravated by Exposure: Lung, eye, skin

SECTION 4: FIRST AID MEASURES

<u>Eves</u>: Immediately flush with large amounts of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

Skin. Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.

Ingestion. If swallowed, seek medical attention immediately.

Inhalation. In case of exposure to high concentrations of vapor, remove to fresh air. If breathing is difficult, give oxygen and get medical attention.

TECTION 5: FIRE FIGHTING MEASURES

tash Point: None to boiling (TCC)

LEL/UEL NA (86 by volume in air)

Estinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Large Spills: Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Absorb spill with inert absorbant material, then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

Small Spills: Absorb spill with absorbent material, then place in a chemical waste container for proper disposal.

### SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor Do not reuse this container. Store in a cool dry place away from heat, sparks and flame. Keep container closed when not in use. Do not store in direct suitlight.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: CHEMICAL NAME

ACGIH TWA

OSHA PEL

OSHA STEL

Acrylic polymer Polyurethane resin

Personal Protection

pH: 6.0-8.0

NA NA NA NA NA NA

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves when handling this material.

NFPA and HMIS Codes: Health Flammability Reactivity

R

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Opaque, viscous material

Odor: Mild. latex-like Vapor Pressure: NA 'apor Density: (Air=1) NA Color: White Boiling Range: >212°F Solubility in Water: Dispersible

Specific Gravity: NA
Evaporation Rate: >1
(Butyl Alcohol= 1)
Viscosity: NA
Percent Volatile: <0.5

Page 1 of 2

MSDS #0716

### SECTION 10: STABILITY AND CHEMICAL PROPERTIES

Stability - Stable.

Conditions to Avoid: Storage above 120° F, exposure to light, loss of polymerization inhibitor, contamination with incompatible materials.

Incompatibility: Do not mix with powdered alkali and alkaline earth metals or strong oxidizing agents.

Products of Decomposition: Thermal decomposition may release carbon monoxide, carbon dioxide, HCN, and hydrocarbons

Hazardous Polymerization: Will not occur

### SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: NA Ingestion: NA Skin: NA

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

### SECTION 12: ECOLOGICAL INFORMATION

**Environmental Impact Information** 

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

REPORTING

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for

the US Coast Guard National Response Center is:

1-800-424-8802

#### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

### SECTION 14: TRANSPORTATION INFORMATION

Air: Coating Compound. Not Regulated Ground: Coating Compound. Not Regulated

#### SECTION 15: REGULATORY INFORMATION

#### SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

This product contains no reportable chemicals listed under Section 313

This information should be included on all MSDSs copied and distributed for this material.

TOXIC SUBSTANCES CONTROL ACT (TSCA).

All ingredients of this product are listed on the TSCA Inventory.

#### SECTION 16: OTHER INFORMATION

Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released

WHMIS Ingredient Disclosure list: None

Status: Noncontrolled

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.

Rac. 8/13/99

### MATERIAL SAFETY DATA SHEET MCLUBE 1775X

TMC-1090369

**IDENTIFICATION** 

Manufacturer's Name and Address:

McGee Industries Inc.

9 Crozcrville Road

Aston, PA - 19014

Chemical Name and Synonyms:

Fluoropolymer/Organic Resin Binder

Emergency Telephone No:

Business Hours: (800)262-5823

After Hours:

(800)424-9300

Effective Date:

MCLUBE

October, 1992

Trade Name and Synonyms:

McLube 1775X

**INGREDIENTS** 

Hazardous: CAS No. % By Wt. ILV 2-Butanone 78-93-3 35-42 200 ppm 35-40 100 ppm 108-88-3 Tolucue Isopropyi alcohol 5-8 400 ppm 67-63-0 Organic resin mixture N/A 3-8 N/A

Nonhazardous:

PHYSICAL DATA

Boiling Pt. (760 mm.Hg.) (°F): 175-231

Specific Gravity: 0.9

Vapor Density (Air=1): 2-5

% Volatiles by Weight: 87-94

Melting Point: N/A

Vapor Pressure(mm.Hg.20°C): 70

Solubility in Water(% by Wt.): Nil .

Evaporation Rate (Ether=1): 0.2

Appearance and Odor: Yellowish-white, translucent liquid, slight ethereal odor.

FIRE AND EXPLOSION DATA

Flash Point (Test Method): 16°F. (TOC), 30°F. (TCC).

Lower

1.8

Upper 10

Fiammable Limits (Wt. % 77 F):

Extinguishing Media: CO2, dry chemical, from

Special Fire Fighting Procedures: Full protective equipment including self-contained

breathing apparatus should be used.

Unusual Fire and Explosion Hazards: Reep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat.

### REACTIVITY DATA

Stability: Stable.

Incompatibility (Materials to avoid): Oxidizing materials.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, possibly small quantities hydrogen fluoride and organic fluorides.

Polymerization: Will not occur.

### HEALTH HAZARD INFORMATION

Exposure Limit: TLV 100 ppm.

Page Two MSDS

McLube 1775X

### ROUTES OF EXPOSURE AND EFFECTS

Inhalation: 220 ppm for prolonged periods may cause headache, dizziness, loss of balance;

higher levels can lead to unconsciousness or even death.

Skin Contact: Irritation; prolonged contact may cause dermatitis.

Eye Contact: Imitation.

Ingestion: Harmful if swallowed.

Carcinogenicity: None of the components in this product is listed by IARC, NTP, or OSHA

as a carrinogen.

### EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush with water. Call a physician.

Skin: Wash off in flowing water.

Inhalation: Remove to fresh air. Call a physician.

Ingestion: Do not induce vomiting. Call a physician.

### PROTECTION INFORMATION

Ventilation: Control vapor to standard, OSHA standard 100 ppm.

Personal Protective Equipment

Respiratory: In absence of environmental control, approved organic vapor-type

respirator.

Eye: Salety glasses.

Gloves: Impermeable gloves recommended.

Other: Boots and apron may be necessary depending on extent and severity of exposure.

### DISPOSAL PROCEDURES

Spill or Leak: Eliminate ignition sources. Soak up with inert absorbent such as sand,

earth or vermiculite and put in closed container for prompt disposal.

Waste Disposal: Incinerate in compliance with local, state and

federal regulations.

### PRECAUTIONARY STATEMENTS AND ADDITIONAL INFORMATION

Keep containers closed.

Contents may be under pressure; open containers slowly to release pressure.

When transferring product, follow proper grounding procedures.

Avoid breathing of vapor, use with adequate ventilation especially in enclosed areas.

Flammable liquid and vapor - keep away from flames and other ignition sources.

Avoid contact with eyes or skin; wash hands thoroughly after handling.

Empty containers retain product residue; follow label warnings even after container is emptied; residual vapors may explode on ignition; do not cut, drill or weld on or near container

2-Butanone and toluene are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR 372.

Toluene contains traces of between and the restn tulxture is reported to contain traces of formaldehyde, chemicals which are on the California Proposition 65 list of chemicals classed as carcinogens.

This information relates on the specific material designated and may not be valid for such material used in combination with any other materials or in only process. Such information is to the boot of our knowledge and helich accurate and reliable or of the date compiled. However, no representation, watering of guarantee is made on to the naturally, reliability or completeness. It is the next a responsibility to easily himself on to the cutchildity and completeness of such information for the own particular use. We do not approximately for any loss or damage that may come from the use of this information nor do we other waterity against patent infringement.

# TMC# 1127753

### MATERIAL SAFETY DATA SHEET

IDENTIFICATION

McLUBE 2003 (MIL-L-60326 Type III)

Rec. 8/13/99

Manufacturer's Name and Address: McGee Industries, Inc.

Chemical Name and Synonyms:

9 Crozerville Road Aston, PA 19014

Emergency Telephone No:

Business Hours: After Hours:

(800) 262-5823 (800) 424-9300

Effective Date:

January, 1992

Trade Name and Synonyms:

McLube 2003

CAS No.

8 By Wt.

TLV

**INGREDIENTS** 

Hazardous:

1.1.2-Trichloro-1,2,2-trifluoroethane

Fluorochemical Polymer Dispersion

76-13-1

95-99

1000 ррш

Nonhazardous:

PHYSICAL DATA

Boiling Pt. (760 mm.Hg.) (°F): 117.6

Melting Point: (Solids) 572°F.

Specific Gravity:

95-99

Vapor Pressure(mm.Hg. 20°C1: 334 Solubility in Water (% by Wt.): Nil

Vapor Density (Air=1): 6.4

Evaporation Rate (Ether=1):

% Volatiles by Weight: Appearance and Odor:

White, translucent liquid, slight ethereal odor.

FIRE AND EXPLOSION DATA

Flash Point (Test Method): None (TOC, TCC, COC)

Lower N/A

Upper N/A

Flammable Limits (Wt. % 77°F): Extinguishing Media:

Water fog.

Special Fire Fighting Procedures:

Nothing special.

Unusual Fire and Explosion Hazards:

In presence of open flame, can produce toxic

fumes requiring respirator.

REACTIVITY DATA

Stability:

Stable.

Incompatibility (Materials to avoid):

Avoid reactive metals, especially powders.

Hazardous Decomposition Products:

Hydrogen chloride, hydrogen fluoride, and

possibly carbonyl halides.

Polymerization: Will not occur.

.O.TOTA988999 10:44 AA LTO LAA HEALTH HALARD INFURMATION

Exposure Limit: TLV 1000 ppm. raye Iwo マシ McLube 2003 (MIL-L-60326 TypeI

Routes of Exposure and Effects

Inhalation:

Prolonged breathing of high concentrations of vapor may cause lightheadedness, dizziness and loss of balance and may lead to cardiac

irregularities, unconsciousness or even death.

Skin Contact:

Mild irritation, not a sensitizer.

Eve Contact:

Mild irritation.

Ingestion:

Low oral toxicity.

Carcinogenicity: None of the components in this product is listed by IARC, NTP or OSHA

as a carcinogen.

### EMERGENCY AND FIRST AID PROCEDURES

Eyes:

Flush with water immediately for at least 5 minutes.

Skin:

Wash oft in flowing water.

If large amounts inhaled, remove to fresh air; if not breathing, have qualified Inhalation: person give mouth-to-mouth resuscitation; if breathing difficult, give oxygen and call a physician. Ingestion: Do not induce vomiting. Call a physician.

### PROTECTION INFORMATION

Ventilation:

Control vapor to standard, OSNA standard 1000 ppm.

Personal Protective Equipment

Respiratory:

In absence of environmental control, approved organic vapor-type respirator

For emergencies, positive-pressure breathing apparatus or full-

face respirator with approved organic conister recommended.

Eye:

Safety glasses when handling liquid.

Gloves:

Impermeable gloves recommended.

Other:

None.

### DISPOSAL PROCEDURES

Spill or Leak:

Soak up with inert absorbent such as sand, earth or vermiculite and put

in closed container for prompt disposal.

Waste Disposal:

Send to approved landfill in compliance with local, state and federal

regulations.

### PRECAUTIONARY STATEMENTS AND ADDITIONAL INFORMATION

Contents may be under pressure; open containers slowly to release pressure. Heating solid active ingredient above 500°F may cause formation of potentially toxic substances.

Avoid breathing vapor.

Use with adequate ventilation especially in enclosed areas.

Reep away from flames and other ignition sources.

Do not smoke while using nor contaminate tobacco products.

. - ..

Wash hands thoroughly after handling.

MOR 001049

MSDS: A0623

5. PIRE-FIGHTING MEASURES

ITEM: 4ZF49

ORDER: 0075168312

DROP LOCATION: P3-400

Rec 9/4/01 500

APR 0 2 2001

### **MATERIAL SAFETY DATA SHEET (MSDS)**

This MSDS should be attached or kept with the respective product with which it is associated.

| Associated Grainger Items             |                   |                                       |
|---------------------------------------|-------------------|---------------------------------------|
| 42749                                 |                   |                                       |
|                                       |                   |                                       |
| 644079-00 MOBILI                      | TH SRC 100        |                                       |
| MATERIAL SAPETY D                     | ATA BULLETIN      |                                       |
|                                       | •                 |                                       |
|                                       |                   |                                       |
| 1. PRODUCT AND COMPANY IDENTIFICATI   | Conf              |                                       |
|                                       |                   |                                       |
| PRODUCT MANE: MOBILITE SEC 100        |                   |                                       |
| SUPPLIER: MOBIL OIL CORP.             |                   |                                       |
| HORTE AMERICA MARKETING AND RE        | FINING            |                                       |
| 3225 GALLOWS RD.                      |                   |                                       |
| PAZRFAX. VA 22037                     |                   |                                       |
| 24 - MOUR EMERGENCY (CALL COLLECT):   | 609-737-4411      |                                       |
| PRODUCT AND MSDS INFORMATION:         |                   | 609-224-4644                          |
| CERTIFICA                             | 800-424-9300      |                                       |
| CREMITAL                              |                   |                                       |
| 2. COMPOSITION/IMPORMATION ON INCRES  |                   |                                       |
| 2. COMPOSITION/INPORMATION ON INCAME  |                   |                                       |
|                                       |                   | •                                     |
| CHEMICAL MAKES AND STHONYMS: STH. ET  |                   | mnt traez                             |
| INGREDIENTS CONSIDERED EAZARDOUS TO   |                   |                                       |
| THIS PRODUCT IS NOT PORMULATED TO CO  |                   |                                       |
| EXPOSURE LIMITS ESTABLISHED BY U.S.   |                   | NUT RAZARDOUS TO                      |
| WEALTH AS DEFINED BY THE SUROPEAN OF  |                   |                                       |
| SUBSTANCES/PREPARATIONS DIRECTIVES.   | SEE SECTION 15    | FOR A REGULATORY                      |
| AMALYSIS OF THE INCREDIENTS.          |                   |                                       |
| SRE SECTION 15 FOR EUROFRAN LABEL IN  |                   |                                       |
| SEE SECTION 8 FOR EXPOSURE LIMITS (   |                   |                                       |
|                                       |                   |                                       |
| ). MAIARDS IDENTIFICATION             |                   |                                       |
|                                       |                   |                                       |
| US OSEA RAZAED COMMUNICATION STANDAR  | D: PRODUCT ASSE   | ISSED IN ACCORDANCE                   |
| WITH OSHA 29 CFR 1916.1208 AND DETER  | MINED NOT TO BE   | HAZARDOUS.                            |
| SPYECTS OF OVERESPOSURE NO SIGHTYTO   | ANT EFFECTS EXPI  | KTID.                                 |
| ENGERGENCY EESPONSE DATA: EED GREASE. | DOT 836 NO        | <b>35</b> 0                           |
|                                       |                   |                                       |
| 4. FIRST AID MEASURES                 |                   |                                       |
|                                       |                   |                                       |
| ETE CONTACT: FLUSH THOROGOLI WITH 1   | UATION. IF INDITA | TION OCCURS, CALL                     |
| A PHYSICIAM.                          |                   |                                       |
| SKIN CONTACT: WASH CONTACT AREAS WIT  | TE SOAP AND WATER | . VIÇE PRESSURE                       |
| ACCIDENTAL INJECTION TEROUGH THE SEL  |                   |                                       |
| ATTENTION FOR POSSIBLE INCISION, IN   |                   |                                       |
| INMALATION: NOT EXPECTED TO BE A PEG  |                   | · · · · · · · · · · · · · · · · · · · |
| INGESTION: NOT EXPECTED TO BE A PROB  |                   | 7 (DF)-TF: TF: 1/2                    |
|                                       |                   | r ununita IBAF 1/4                    |
| LITER (PINT) INGESTED, SEEK NEDICAL   |                   |                                       |
|                                       |                   |                                       |

EXTINGUISHING MEDIA: CARBON DIOXIDE, FOAM, DRI CHEMICAL AND MATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES: MATER OR FOAM MAY CAUSE FROTEING,

USE MATER TO KREP FIRE EXPOSED CONTAINERS COOL. MATER SPRAY MAY

BE USED TO FLUSH SPILLS AMAY FROM EXPOSURE. PREVENT RUNOFF FROM

FIRE CONTROL OR DILUTION FROM ENTERING STREAMS, SEWERS, OR

DRIBKING MATER SUPPLY.

SPECIAL PROTECTIVE EQUIPMENT: FOR FIRES IN ENCLOSED AREAS, FIRE FIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NOWE. FLASE FOINT C(F): >

204(400) (ABTE D-93). FLAMMABLE LIMITS - LEL: NA, UNL: NA.

NFFA HAZARD ID: REALTH: 0, FLAMMABILITY: 1, REACTIVITY: 0

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONORIDE. NETAL OXIDES.

ELEMENTAL OXIDES.

#### 6. ACCIDENTAL RELEASE MEASURES

MOTIFICATION PROCEDURES: REPORT SPILLS AS REQUIRED TO APPROPRIATE
AUTHORITIES. U. S. COAST GUARD REGULATIONS REQUIRE INGEDIATE
REPORTING OF SPILLS THAT COULD REACH ANY MATERNAY INCLUDING
INTERMITTENT DAY CREEKS. REPORT SPILL TO COAST GUARD TOLL FREE
MURGER (800) 424-8802. IN CASE OF ACCIDENT OR ROAD SPILL MOTIFY
CHEMITREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED ON SPILLED; SHOVEL UP AND DISPOSE
OF AT AN APPROPRIATE WASTE DISPOSAL FACILITY IN ACCORDANCE WITH
CURRENT APPLICABLE LAWS AND REGULATIONS, AND PRODUCT
CHARACTERISTICS AT TIME OF DISPOSAL.

ENVIRONMENTAL PRECAUTIONS: PREVENT SPILLS FROM ENTERING STORM SEWERS OR DRAINS AND CONTACT WITE SOIL.

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PERSONAL PRECAUTIONS: SEE SECTION 8

#### 7. HANDLING AND STORAGE

HANDLING: HIGH PRESSURE INJECTION UNDER THE SKIM MAY OCCUR DUE TO THE RUPTURE OF PRESSURIZED LINES. ALMAYS SHEE MEDICAL ATTENTION. STORAGE: DO NOT STORE IN OPEN OR UNLABELLED CONTAINERS. STORE ANAY FROM STRONG OLIDIZING AGENTS OR COMBUSTIBLE MATERIAL.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE AND WITH ADBOUATE VENTILATION.

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE AND WITE ADEQUATE VENTILATION.

EYE PROTECTION: GENERALLY EYE CONTACT IS UNLIKELY WITH THIS TYPE MATERIAL. IF ETE CONTACT IS LIKELY, SAFETY GLASSES WITH SIDE SKIELDS OR CHEMICAL TYPE GOOGLES SHOULD BE WORK.

SKIN PROTECTION: IF PROLONGED OR REPRATED SKIN CONTACT IS LIKELT, OIL INSTRUTORS GLOVES SHOULD BE MORE. GOOD PERSONAL BYGINGE PRACTICES SHOULD ALMAYS BE POLICIED.

EXPOSURE LIMITS: THIS PRODUCT DOES NOT CONTAIN ANY COMPONENTS WHICH HAVE RECOGNIZED EXPOSURE LIMITS.

### 9. PETSICAL AND CHEMICAL PROPERTIES

TYPICAL PETSICAL PROPERTIES ARE GIVEN BELOW. CONSULT PRODUCT DATA SEEST
FOR SPECIFIC DETAILS.

APPEARANCE: GREASE

COLOR: AND

ODOR: MILD

ODOR TERRESHOLD-PPH: NE

MOR 001051

BOILING POINT C(Y): MA DROP POINT C(F): ME PLASE POINT C(F): > 204(400) (ASTM D-93) PLANKABILITY: ME AUTO FLAMMABILITY: ME RIPLOSIVE PROPERTIES: NA CHIDINE PROPERTIES: MA VAPOR PRESSURE-MANG 20 C: & LT: 0.1 VAPOR DERSITT: WE EVAPORATION RATE: NE RELATIVE DESSITY, 15/4 C: 0.889 SOLUBILITY IN WATER, MEGLIGIBLE PARTITION COMPTICIENT: > 3.5 VISCOSITE AT 40 C, CST: > 90.0 VISCOSITY AT 180 C, CST: 14.5 POUR POINT C(F): MA PREEZING POINT C(F): ME VOLATILE ORGANIC COMPOUND: NA MOTE: MOST PEYSICAL PROPERTIES FOR OIL COMPONENT. MA-NOT APPLICABLE NE-NOT ESTABLISHED D-DECOMPOSES FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE 10. STABILITY AND REACTIVITY STABILITY (TERMAL, LIGHT, ETC.): STABLE. COMDITIONS TO AVOID: EXTREME MEAT. INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS. RAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONORIDE. METAL OXIDES. MAZARDOUS POLTMERIZATION: WILL NOT OCCUR. 11. TOXICOLOGICAL DATA --- ACTITE TOXICOLOGY ---ORAL TOXICITY (RATS): PRACTICALLY NOW-TOXIC (LD50: GREATER TEAM 2000 MG/RGI. --- BASED ON TESTING OF SINILAR PRODUCTS AND/OR THE DERHAL TOXICITY (RABBITS): PRACTICALLY NOW-TOXIC (LDSG: GREATER TEAM 2000 MG/KG). --- BARED OF TESTING OF SINCILAR PRODUCTS AND/OR THE IMBALATION TOXICITY (RATS): NOT APPLICABLE --- MARKOUL CONCENTRATIONS OF MISTS AND/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED TEROUGE ANY CUSTOMARY OR REASONABLY FORESTEABLE EARDLISG, USE, OR MISUSE OF THIS PRODUCT. THE INDITATION (MARBITS): PRACTICALLY NON-INDITATING. (DRAIGE SCORE: GREATER TEAM 6 BUT 15 OR LESS). --- BASED ON TESTING OF SINGLAR PRODUCTS AND/OR THE COMPORENTS. SKIN IRRITATION (RABBITS): PRACTICALLY NON-IRRITATING, (PRIMARY TERITATION INDEX: GREATER THAN 0.5 NOT LESS THAN 3). --- BASED ON TESTING OF SINILAR PRODUCTS AND/OR THE COMPONENTS. OTHER ACUTE TOXICITY DATA: THE ACUTE TOXICOLOGICAL RESULTS SUMMARIZED ABOVE ARE BASED ON TESTING OF REPRESENTATIVE MOBIL PRODUCTS. --- SUBCEROWIC TOXICOLOGY (SUBBLET) ---DEPRESENTATIVE MORIL POSMULATIONS HAVE REEN TESTED AT THE MORIL ENVIRONMENTAL AND MEALTH SCIENCES LABORATORY BY DERMAL APPLICATIONS TO RATS 5 DAYS/WEEK FOR 90 DAYS AT DOSES SIGNIFICANTLY EIGHER THAN TROSE REPECTED DURING HORMAL INDUSTRIAL EXPOSURE. EXTENSIVE EVALUATIONS, INCLUDING MICROSCOPIC

EXAMINATION OF INTERNAL ORGANS AND CLINICAL CHRISTRY OF BODY

FLUIDS, SHOWED BO ADVENSE EFFECTS.

--- REPRODUCTIVE TOXICOLOGY (SUNGARY)---

DERMAL EXPOSURE OF PREGMANT RATS TO REPRESENTATIVE FORMULATIONS DID NOT CAUSE ALVERSE EFFECTS IN EITHER THE MOTHERS OR THEIR OFFSPRIME.

--- SENSITIZATION (SURGARY)---

REPRESENTATIVE MOBIL PORMULATIONS HAVE NOT CAUSED SKIN SENSITIZATION IN GUINNEA PIGN.

--- OTHER TOXICOLOGY DATA---

THIS PRODUCT IS PORMULATED WITH A SYPTEMTIC HYDROCARBON AS THE BASE STOCK. THE MOBIL ENVIRONMENTAL AND HEALTH SCIENCES LABORATORY HAS TESTED REPRESENTATIVE SYNTHETIC BASE STOCKS TO ASSESS THEIR POTENTIAL ADVERSE HYPECTS ON HUMAN HEALTH. ASSESSMENT OF RUMAN HEALTH EPFECTS WAS BASED ON ACUTE ORAL, DERMAL, AND INHALATION TOLICITY; HIE AND SKIN IRRITATION; SUBCERONIC DERMAL TOXICITY AND REPRODUCTIVE STUDIES; QUINEA PIG SENSITIZATION; AND MUTAGENICITY AND CHROMOSOMAL DAMAGE ASSATS. MONE OF THESE BASE STOCKS APPEARS TO POSE A HEALTH BALARD TO HUMANS UNDER CONDITIONS OF EXPECTED

\_\_\_\_\_\_

12. ECOLOGICAL IMPORMATION

ENVIRONMENTAL PATE AND EFFECTS: THIS PRODUCT IS EXPECTED TO BE INKERENTLY BIODECRADABLE. THERE IS NO EVIDENCE TO SUGGEST BIOACCUMULATION WILL OCCUR.

ACUTE LC/EC56: JUVENILE RAIMBON TROUT: PRACTICALLY MON-TOXIC
---BASED ON TESTING OF SIMILAR PRODUCTS.

ACCIDENTAL SPILLAGE MAY LEAD TO PENETRATION IN THE SOIL AND
GROUNDMATER. HOWEVER, THERE IS NO EVIDENCE THAT THIS WOULD CAUSE
ADVERSE ECOLOGICAL REPECTS.

#### 13. DISPOSAL CONSIDERATIONS

MASTE DISPOSAL: PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED,
CONTROLLED BURNER FOR FUEL VALUE OR DISPOSAL BY SUPERVISED
INCINERATION. SUCE BURNING BAY BE LIMITED PURSUANT TO THE
RESOURCE CONSERVATION AND RECOVERY ACT. IN ADDITION, THE PRODUCT
IS SUITABLE FOR PROCESSING BY AN APPROVED RECYCLING FACILITY OR
CAN BE DISPOSED OF AT AN APPROPRIATE GOVERNMENT MASTE DISPOSAL
FACILITY. USE OF THESE METHODS IS SUBJECT TO USER COMPLIANCE
WITH APPLICABLE LAMS AND REGULATIONS AND CONSIDERATION OF PRODUCT
CHARACTERISTICS AT TIME OF DISPOSAL.

RCRA INFORMATION: THE GNOSED PRODUCT, IN OUR OPINION, IS NOT SPECIFICALLY LISTED BY THE EPA AS A BASARDOUS WASTE (40 CVR, PART 261D). HOR IS IT FORMULATED TO CONTAIN MATERIALS WEICE ARE LISTED BASARDOUS WASTES. IT DOES NOT EXHIBIT THE BASARDOUS CHARACTERISTICS OF IGNITIABILITY, CORROSIVITY, OR REACTIVITY AND IS NOT FORMULATED WITH CONTAMINANTS AS DETERMINED BY THE TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLF). HOWEVER, USED PRODUCT NAT BE REGULATED.

\_\_\_\_\_

\_\_\_\_\_

14. TRANSPORT IMPORMATION

USA DOT: NOT REQULATED BY USA DOT.

RID/ADR: NOT REQULATED BY RID/ADR.

IMO: NOT RECOLATED BY IMO.

IATA: NOT REGULATED BY IATA

15. REGULATORY IMPORMATION

MOR 001053

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T EU LABELING: EU LABELING NOT REQUIRED.
 U.S. SUPERFOAD AMENDMENTS AND REAUTEORIZATION ACT (SARA) TITLE III:
 THIS PRODUCT CONTAINS NO "EXTREMELY MALARDOUS SUBSTANCES".
 SARA (311/312) REPORTABLE MAZARD CATEGORIES: NONE.
 THIS PRODUCT CONTAINS NO CHEMICALS REPORTABLE UNDER
 SARA (313) TORIC BELBASE PROGRAM.
 THE FOLLOWING PRODUCT INCREDIBITS ARE CITED ON THE LISTS BELOW:
 CAS MINUSER
 CHEMICAL MAME
 LIST CITATIONS

 LITRIUM SYDROXIDE (0.09%)
 1310-65-2
 LITERUM-SQAP TRICKERER (10.41%) 7620-77-1
 MEXAMEDICIC ACID. NOMOMETRYL ESTER. 64601-11-2
 22
 LITHIUM SALT (2.57%)
 PENTANEDIDIC ACID. MOMOMETETA
 64601-12-3
 22
 ESTER, LITHIUM SALT (0.36%)
 PATTY ACTES C16-22 1.778700 841.79 68781-16-8
 ... PROMILETORY LISTS SPANCED ...
 1-ACGIE ALL 6-LARC 1 11-TSCA 4 16-CA P65 CARC 21-LA RTK
 2-ACGIE A1 7-IARC 2A 12-TSCA 5A2 17-CA P65 REPRO 22-MI 293
 3-ACGIE AZ 0-IARC 2B
 13-TSCA 5E 10-CA RTK
 4-MTP CARC 9-OSEA CARC 14-TSCA 6 19-PL RTK
 24 of TR
 5-MTP SUS 10-05MA I 15-75CA 128 20-1L RTK
 26-BI RTK
 CODE KET: CARC-CARCINOGEN; SUS-SUSPECTED CARCINOGEN; REPRO-REPRODUCTIVE
 16. OTHER INFORMATION
 WOTE: MOBIL PRODUCTS ARE MOT PORMULATED TO CONTAIN PORS.

 PLEASE CALL THE CUSYOMER RESPONSE CENTER ON 860-662-4525 FOR FORWILLTION
 FOR INTERNAL USE CHLT: NEC: 1* 1* MA 1* 1*, MPPEC: A, THE: 644070-00,
 GLIS: 400593, CMCS97: 971888, REQ: US - MARKETING, SAPE USE: L
 EHS APPROVAL DATE: 19JUN1999
 LEGALLY REQUIRED INFORMATION IS GIVEN IN ACCORDANCE WITH APPLICABLE
 INFORMATION GIVEN REMEIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT
 WITHOUT GOARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR
 PARTICULAR USES ARE BEYOND OUR CONTROL: ALL RISES OF USE OF THE PRODUCT
 ARE THERMOOR ASSUMED BY THE DAME AND WE HARRESTLY DISCULTS ALL
 MARRAWTIES OF EVERY KIND AND MATURE, INCLUDING WARRAWTIES OF
 MERCHANYABILITY AND PITHESS FOR A PARTICULAR PURPOSE IN RESPECT TO
 THE USE OR SUITABILITY OF THE PRODUCT. MOTHING IS INTENDED AS A
 RECONNENDATION FOR USES NEICH INFRINGE VALID PATENTS OR AS EXTENDING
 ANY LICENSE UNDER VALID PATENTS. APPROPRIATE MARNINGS AND SAFE RANDLING
 PROCEDURES SHOULD BE PROVIDEDTO MANDLERS AND USERS. USE OR RE-
 TRANSMISSION OF THE INFORMATION CONTAINED EXPRISE IN ANY OTHER PORMAT
 THAN THE PORMAT AS PRESENTED IS STRICTLY PROBERTED, MORIL MELTERS
 REPRESENTS NOR WARRANTS THAT THE PORMAT, CONTENT OR PRODUCT FORMULAS
```

GOVERNMENTAL INVENTORY STATUS: ALL COMPONENTS COMPLY WITH TSCA, AND

EXCEPT THE UNITED STATES OF AMERICA.

CONTAINED IN THIS DOCUMENT COMPLY WITH THE LAWS OF ANY OTHER COUNTRY

. To: PHIL MYER

From: Moline Paint Manufacturing Co. 11-17-95 8:11am p. 2 of 5

date of prep : 11/17/95 \*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

11-N103A (page 1) 

manufacturer: MOLINE PAINT MANUFACTURING CO.

address : 5400 23RD AVENUE

NULINE IL 61265-5096

telephone# : (309) 762-7546 emergency# : (309) 762-7546

HEALTH : 2# ; FLANKABILITY : 3 ; REACTIVITY : 0 ;

: PERSONAL PROTECT .: 1 :

product class: PAINT OR ALLIED PRODUCT (HAZARD RATING: O=least, 1=slight, 2=moderate, 3=high, 4=extreme, \*=chronic)

(I - safety glasses, gloves, combination dust and vapor respirator)

mfg. codc id : 11 N103A trade name : 1E1950E MOJAVE BROWN ENAMEL

SECTION 11-4

#### HAZARDOUS COMPONENTS

| no. | component.                      | CÅS#       | % hy wt. | SARA 313 | vapor pressure<br>(mm Hg @ 20 C) | LEL<br>(@ 25 C) |
|-----|---------------------------------|------------|----------|----------|----------------------------------|-----------------|
| 1   | ALIPHATIC PETROLEUM DISTILLATES | 64742-89-8 | 15 - 20  | NO       | 15.00 (@ 38 C)                   | 0.90            |
| 2   | MINERAL SPIRITS                 | 8052-41-3  | 10 - 15  | ŅŬ       | 2.60                             | 0.70            |
| 3   | HINERAL SPIRITS                 | 64742 47 8 | 5 10     | NO       | 1.20                             | 1.00            |
| 4   | VELLOW TRON OXIDE               | 51274-00-1 | 5 - 10   | NO       | N/A                              | N/A             |
| 5   | ISOBUTYL ALCOHOL                | 78-83-1    | 1 - 5    | ИО       | 9.00                             | 1.70 (@ 51 C)   |
| 6   | 1-METHOXY-2-PROPANOL            | 107-98-2   | 1 - 5    | NO       | 12.50 (@ 25 C)                   | 1.60            |
| 7   | TALC                            | 14807-96-6 | 1 - 5    | NŪ       | N/A                              | N/A             |
| 8   | TITANIUM DIOXIDE                | 13463 67 7 | 1 5      | NO       | N/A                              | N/A             |
| 9   | 7INC OXIDE                      | 1314-13-2  | 1 - 5    | VES      | N/A                              | N/A             |
| 10  | 2-BUTOXYETHANOL                 | 111-76-2   | 1 - 5    | YES      | 0.60                             | 1.10            |
| 11  | ZINC                            | 7440-66-6  | 1 - 5    | YES      | N/A                              | N/A             |
| 12  | XYLENE                          | 1330-20-7  | 1 - 5    | YES      | 6.60                             | 1.10            |
| 13  | IRON OXIDE                      | 1309 37 1  | 1 5      | NO       | N/A                              | N/A             |
| 14  | 1-METHOXY-2-PROPANE ACETATE     | 108-65-6   | 1 - 5    | NO       | 3.70                             | 1.50 (@ 200 C)  |

None of the components of this product are recognized as carcinogenic by NTP. OSHA, or IARC.

This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm (Proposition 65).

(N/A = not applicable)

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THE MUREY CAMP.

p. 3 of 5

date of prep : 11/17/95

\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

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SECTION II B OCCUPATIONAL ENPOSURE LIMITS

|     | OSHA                  |             | ACGIH                  |                    | MFG                |             |  |
|-----|-----------------------|-------------|------------------------|--------------------|--------------------|-------------|--|
| no. | PEL/TWA               | PEL/CEILING | TLV/TVA                | TLV/STEL           | PEL/TWA            | PEL/CEILING |  |
| 1   | 400 ppm               | N/E         | 300 ppm                | N/E                | 350 mg/m3 (ASHLAND | (H2OIN      |  |
| 2   | 100 ppm (AS STODDARD  | SOLVENT)    | INO ppm (AS STODDARD   | SOLVENT)           | N/E                | N/E         |  |
| 3   | 100 ppm (as STODDARD  | SOLVENT)    | 100 ppm (as STODDARD   | SOLVENT)           | N/E                | N/E         |  |
| 4   | 10 mg/m3              | N/E         | N/E                    | N/E                | N/E                | N/E         |  |
| 5   | 100 ppm               | N/E         | 50 ppm                 | N/E                | N/E                | N/E         |  |
| 6   | 100 ppm FINAL         | N/E         | 100 ppm                | 150 ppm            | N/E                | N/E         |  |
| 7   | 2Ω mppcf              | N/E         | 2 mg/m3 Resp. Dust.    | N/E                | N/E                | N/E         |  |
| 8   | 10 mg/m3 Total Dust   | (FINAL)     | 10 mg/m3 Total Dust    | N/E                | N/E                | N/E         |  |
| 9   | 10 mg/m3 Total Dust   | N/E         | 10 mg/m3 Total Dust    | N/E                | N/E                | N/E         |  |
| 10  | 25 ppm (SKIN) FINAL   | N/E         | 25 ppm (SKIN)          | N/E                | N/E                | N/E         |  |
| 11  | N/E                   | N/E         | 5 mg/m3                | N/E                | N/E                | N/E         |  |
| 12  | 100 ppm; 150 ppm STEL | N/F         | 100 ppm, 434 mg/m3     | 150 ppm, 651 mg/m3 | N/E                | N/E         |  |
| 13  | 10 mg/m3 as Dust      | N/E         | 10 mg/m3 Nuisance Dust | N/E                | N/E                | K/E         |  |
| 14  | N/E                   | N/E         | 100ppm                 | 150pp <b>a</b>     | N/E                | N/E         |  |

The dried film of this product is hazardous when removed by sanding, grinding, or welding.

(SKIN) absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact.

(N/E = not established)

### SECTION III PHYSICAL DATA

| hoiling point    | : | not established | % volatile by volume | : | 71,85 | (Theoretical) |
|------------------|---|-----------------|----------------------|---|-------|---------------|
| evaporation rate | : | < 1 (ether = 1) | % volatile by weight | : | 54.21 | (Theoretical) |
| vapor density    | : | > 1 (air = 1)   | veight per gallon    | : | 8.76  | (Theoretical) |
|                  |   |                 | specific gravity     | : | 1.051 | (Theoretical) |

SECTION IV HEALTH INFORMATION

#### EYE CONTACT

PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE EYES. EXPOSURE MAY CAUSE CORNEAL INJURY. PRODUCT VAPORS AND/OR MISTS MAY ALSO BE IRRITATING TO THE EYES.

#### SKIN CONTACT

BASED ON THE PRESENCE OF COMPONENT 10 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THE SKIN. BASED ON THE PRESENCE OF COMPONENTS 6. 10 AND 14 ABSORPTION THROUGH THE SKIN MAY RESULT IN SYMPTOMS OF EXPOSURE AS THOSE DESCRIBED FOR INHALATION AND INGESTION. PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DERNATITIS.

### INHALATION

EXPOSURE MAY PRODUCE IRRITATION TO THE NOSE. THROAT, RESPIRATORY TRACT, AND OTHER NUCOUS MEMBRANES. EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DANAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARNFUL OR FATAL.

### INGESTION

NODERATELY TOXIC. BASED ON THE PRESENCE OF CONFONENT 10 INCESTION MAY CAUSE RED BLOOD CELL HENDLYSIS LEADING TO KIDNEY AND LIVER DAMAGE. SMALL ANGUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VONITING MAY RESULT IN SEVERE LUNG DAMAGE. INGESTION MAY CAUSE CENTRAL MERVOUS SYSTEM DEPRESSION.

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date of prep : 11/17/95

\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

11-N103A (page 3)

#### SICHS AND SYMPTOMS

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN, TEARING, REDDENING AND SWELLING, SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING, SWELLING, RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY MOSE, SORE THROAT, COUGHING, CHEST DISCOMPORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OF GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA, CENTRAL NERVOUS SYSTEM DEPRESSION MAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTOMS OF INTUXICATION: IN EXTREME CASES. UNCONSCIOUSNESS AND DEATH MAY OCCUR. SYMPTOMS OF CHRONIC OVEREXPOSURE INCLUDE LOSS OF MEMORY. LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION.

#### AGGRAVATED MEDICAL CONDITIONS

PREEXISTING SKIN. EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED KIDNEY, LIVER, BLOOD, CENTRAL NERVOUS SYSTEM FUNCTIONS FROM PREEXISTING DISORDERS MAY BE ACCRAVATED BY EXPOSURE TO THIS PRODUCT.

#### OTHER HEALTH EFFECTS

BASED ON THE PRESENCE OF COMPONENTS 6. 10 AND 14 CHRONIC OVEREXPOSURE MAY CAUSE INJURY TO THE KIDNEYS AND LIVER. BASED ON THE PRESENCE OF COMPONENT 10 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE RED BLOOD CELLS. BASED ON THE PRESENCE OF COMPONENTS 6 AND 10 CHRONIC OVEREXPOSURE MAY CAUSE DAMAGE TO THE LUNGS. BASED ON THE PRESENCE OF COMPONENT 8 CHRONIC OVEREXPOSURE TO TIO2 DUST MAY CAUSE SLIGHT LUNG FIBROSIS. BASED ON THE PRESENCE OF COMPONENT 7 CHRONIC OVEREXPOSURE TO TALC DUST MAY CAUSE SCARRING OF THE LUNGS. BASED ON THE PRESENCE OF COMPONENT 4 CHRONIC OVEREXPOSURE TO PRODUCT DUST MAY PRODUCE A BENIGN PNEUMOCONIOSIS TERMED 'SIDEROSIS'.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

EVE CONTACT

IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN. SEEK PROMPT MEDICAL ATTENTION.

#### SKIN CONTACT

REHOVE CONTANTINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION TE IRRITATION OCCURS. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTANINATED.

#### INHALATION

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

### INGESTION

DO NOT INDUCE VONITING. IF VONITING SPONTANEOUSLY OCCURS. KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE. THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. CONSULT A PHYSICIAN, HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

>> COMMITTEE 1. 2. 3 AND 12 MAY CAUSE SEVERE. PERMANENT DAMAGE IF ASPIRATED AND VONITING SHOULD NOT BE INDUCED.

FIRE AND EXPLOSION HAZARDS

OSHA FLAMMABILITY CLASSIFICATION

DOT PROPER SHIPPING NAME

FLANHABLE LIQUID - CLASS IB

PAINT

FLASH POINT: 68 degrees F. (Theoretical)

UN1263 PGII

EXTINGUISHING KEDIA

USE VATER FOG. FOAM. DRY CHEMICAL OR CARBON DIOXIDE.

### SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

MARNING, FLAMMABLE, CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE MITHOUT HELMET, FACE SHIFLD, BUNKER COAT. GLOVES. RUBBER BOOTS. AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAKE CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO a there are the first PREVENT YEAKENING OF CONTAINER STRUCTURE.

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From: Moline Paint Manufacturing Co. To: PHIL MYER

11-17-95 8:11am p. 5 of 5

date of prep : 11/17/95

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SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENT 10 AVOID STRONG ALKALIES.

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE, AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION VIII

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

USE VENTILATION AS REQUIRED TO CONTROL VAPOR, MIST, AND/OR DUST CONCENTRATIONS - AT LEAST 10 AIR CHANGES PER HOUR ARE RECONNENDED FOR GOOD GENERAL ROOM VENTILATION. IF EXPOSURE EXCEEDS THE PEL/TLY. USE THE APPROPRIATE NIGSH-APPROVED RESPIRATOR.

PROTECTIVE CLOTHING

WEAR SAFETY GLASSES, GOGGLES, OR A SPLASH SHIELD TO PREVENT EYE CONTACT, CONTACT LENSES SHOULD NOT BE WORN. WEAR APPROPRIATE GLOVES AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

ADDITIONAL PROTECTIVE HEASURES

EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMFRGENCY.

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS. WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY. SAND OR OTHER SUITABLE MATERIAL: PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE: DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SMALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON LEAKING CONTAINERS.

WASTE DISPOSAL

OBSERVE ALL FEDERAL. STATE. AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL.

ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT. SPARKS. AND FLAME. EXTINGUISH PILOT LIGHTS. CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION, CONTAINERS, EVEN IF EMPTY, CAN CONTAIN EXPLOSIVE VAPORS, DO NOT CUT.DRILL, GRIND, OR WELD HEAR CONTAINERS.

CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SOAP AND WATER BEFORE EATING. DRINKING. SMOKING. OR USING TOILET FACILITIES.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, WE MAKE NO VARRANTY. EXPRESSED OR IMPLIED. REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

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NOV 17 1995

THE MUREY CORP

SPARTAN CHEMICAL CO., INC. MATERIAL SAFETY DATA SHEET HEL MOREY CORD

- 1 ( ) ( ) ( ) ( ) ( )

#### SECTION I: PRODUCT INFORMATION

PRODUCT NAME OR NUMBER (as it appears on label) SHINELINE MULTI-SURFACE CLEANER AT 1:64 DILUTION

MANUFACTURER'S NAME

Spartan Chemical Co., Inc. (Concentrate Only)

EMERGENCY TELEPHONE NO.

419/531-5551

ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE)

110 N Westwood Ave Toledo, OH 43607

| NFPA RATINGS:           | HMIS RATINGS:                       |
|-------------------------|-------------------------------------|
| HEALTH-0 FIRE-0 REACT-0 | HEALTH-0 FIRE-0 REACT-0 PERS. PROTA |

| SECTION II: HAZARDOUS INGREDIENTS |    |                  |       |          |         |            |  |  |
|-----------------------------------|----|------------------|-------|----------|---------|------------|--|--|
| CAS                               |    |                  |       | TABLE Z- | 1-A     |            |  |  |
| REGISTRY                          | %W | CHEMICAL NAME(S) | TWA   | STEL     | CEILING | CARCINOGEN |  |  |
| NO.                               | 1  |                  | mg/m³ | mg/m³    | mg/m³   |            |  |  |

NO HAZARDOUS INGREDIENTS AT 1% CONCENTRATION OR GREATER

#### SECTION III: PHYSICAL DATA

BOILING POINT

212°F

SPECIFIC GRAVITY (H,O = 1)

PERCENT SOLID BY WEIGHT

VAPOR PRESSURE

18mm Hg @ 75°F

EVAPORATION RATE (but. ace. = 1)

1 00

VAPOR DENSITY (AIR = 1) Unknown

Complete

10.0-10.6

pΗ

SOLUBILITY IN WATER

APPEARANCE AND ODOR Very light green, water thin liquid, IS MATERIAL: (LIQUID) SOLID **POWDER** GAS PASTE

very slight mint odor

SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASH POINT - None

METHOD USED - ASTM - D56

FLAMMABLE LIMITS - N/A

**EXTINGUISHING MEDIA - N/A** 

SPECIAL FIRE FIGHTING PROCEDURES - N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS - N/A

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|                                                                                                                        |                           |                             | FEB 2.7 1998                                  |
|------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|-----------------------------------------------|
|                                                                                                                        | SECTION V: HEALTH         | HAZARD DAT                  | A THE MADEY OCES                              |
| EFFECTS OF OVEREXPOSURE - CONDITIONS May cause eye irritation.                                                         |                           |                             | ESHOLD LIMIT VALUE - Not established          |
| PRIMARY ROUTES OF ENTRY INHALATION                                                                                     | _ SKIN CONTACT            | T_X_ OTHER                  | (SPECIFY)                                     |
| CONDITIONS AGGRAVATED BY USE - Unknow                                                                                  | wn                        |                             |                                               |
| EMERGENCY AND FIRST AID PROCEDURES Remove contact lenses. Call a physician. SKIN: juice. Call a physician immediately. |                           |                             |                                               |
|                                                                                                                        | SECTION VI: REAC          | CTIVITY DATA                |                                               |
| STABILITY: STABLE X                                                                                                    |                           |                             |                                               |
| INCOMPATIBILITY (MATERIALS TO AVOID) - S                                                                               | Strong oxidizing agents   | i                           |                                               |
| HAZARDOUS DECOMPOSITION PRODUCTS -                                                                                     | None known                |                             |                                               |
| HAZARDOUS POLYMERIZATION: WILL NOT                                                                                     | OCCUR X                   |                             |                                               |
| SECT                                                                                                                   | TION VII: SPILL OR L      | EAK PROCEDU                 | JRES                                          |
| STEPS TO BE TAKEN IN CASE MATERIAL IS I                                                                                | RELEASED OR SPILI         | LED - Flush with            | water to sanitary sewer system.               |
| WASTE DISPOSAL METHOD - Same as above                                                                                  |                           |                             |                                               |
| SECTION                                                                                                                | I VIII: SPECIAL PRO       | TECTION INFOR               | RMATION                                       |
| RESPIRATORY PROTECTION (SPECIFY TYPE                                                                                   | ) - None required         |                             |                                               |
| VENTILATION - Good general ventilation should to operations.                                                           | be sufficient for most co | onditions Local             | exhaust ventilation may be necessary for some |
| PROTECTIVE GLOVES (SPECIFY TYPE) None required                                                                         |                           | EYE PROTEC<br>None required | TION (SPECIFY TYPE)                           |
| OTHER PROTECTIVE EQUIPMENT - None requ                                                                                 | iired                     |                             |                                               |
| s                                                                                                                      | ECTION IX: SPECIAL        | L PRECAUTION                | S                                             |
| PRECAUTIONS TO BE TAKEN IN HANDLING                                                                                    | AND STORING - Keep        | from freezing               |                                               |
| OTHER PRECAUTIONS - None                                                                                               |                           |                             |                                               |
| Spartan Chemical Co., Inc.                                                                                             |                           | NAME                        | Thomas J. Mitchell                            |

TITLE

DATE

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SHINELINE MULTI-SURFACE CLEANER AT 1:64 DILUTION

Ref: 29 CFR 1910:1200 (OSHA)

Director of Research

December 29, 1995

100

HUL 27 1998

#### SPARTAN CHEMICAL COMPANY, INC. MATERIAL SAFETY DATA SHEET

me model with

#### SECTION I: PRODUCT INFORMATION

#### PRODUCT NAME OR NUMBER (as it appears on label) SHINELINE MULTI SURFACE CLEANER

MANUFACTURER'S NAME Spartan Chemical Company, Inc.

EMERGENCY TELEPHONE NO. 800/537-8990

ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE) 110 N. Westwood Ave., Toledo, OH 43607

| 1 | <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del> |                                     |
|---|--------------------------------------------------|-------------------------------------|
|   | NFPA RATINGS:                                    | HMIS RATINGS:                       |
| 1 | HEALTH-1 FIRE-0 REACT-0                          | HEALTH-1 FIRE-0 REACT-0 PERS PROT-B |

|          |    | SECTION II: HAZARDOU | IS INGREDIE | NTS      |         |            |
|----------|----|----------------------|-------------|----------|---------|------------|
| CAS      |    |                      |             | TABLE Z- | 1-A     |            |
| REGISTRY | %W | CHEMICAL NAME(S)     | TWA         | STEL     | CEILING | CARCINOGEN |
| NO.      | 11 | <del></del>          | mg/m³       | mg/m³    | mg/m³   |            |

64-02-8

1-5

Tetrasodium ethylene diaminetetraacetate

--- not established

No

#### SECTION III: PHYSICAL DATA

**BOILING POINT** 

212°F

SPECIFIC GRAVITY (H2O = 1)

1 03

PERCENT SOLID BY WEIGHT

11-13

**VAPOR PRESSURE** 18mm Hg @ 75°F

VAPOR DENSITY (AIR ≈ 1)

Unknown

SOLUBILITY IN WATER

Complete pН 10.8-11.2

EVAPORATION RATE (but. ace. ≈ 1) <1

APPEARANCE AND ODOR Green, water thin, mint odor

IS MATERIAL: (LIQUID) SOLID

POWDER

GAS

PASTE

SECTION IV: FIRE & EXPLOSION HAZARD DATA

FLASH POINT - None

METHOD USED - ASTM - D56

FLAMMABLE LIMITS - N/A

**EXTINGUISHING MEDIA - N/A** 

SPECIAL FIRE FIGHTING PROCEDURES - N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS - N/A

630 960 7484 Spartan Chemical Page 803

AUL 2 7 1398

|                                                                                                                            | SECTION V: HEALTH HAZARD DAT              | A let bourt                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------|
| EFFECTS OF OVEREXPOSURE - CONDITION May cause eye irritation.                                                              | NS TO AVOID THR                           | ESHOLD LIMIT VALUE - Not established                                                              |
| PRIMARY ROUTES OF ENTRY INHALATIO                                                                                          | N _ SKIN CONTACT X OTHER                  | (SPECIFY)                                                                                         |
| CONDITIONS AGGRAVATED BY USE - Unkn                                                                                        | own                                       |                                                                                                   |
| EMERGENCY AND FIRST AID PROCEDURE. Remove contact lenses. Call a physician. SKI fruit juice. Call a physician immediately. |                                           | ely flush eyes with water for at least 15 minutes if swallowed, give large quantities of water or |
|                                                                                                                            | SECTION VI: REACTIVITY DATA               |                                                                                                   |
| STABILITY: STABLE X                                                                                                        |                                           |                                                                                                   |
| INCOMPATIBILITY (MATERIALS TO AVOID)                                                                                       | Strong oxidizing agents                   |                                                                                                   |
| HAZARDOUS DECOMPOSITION PRODUCTS                                                                                           | - None known                              |                                                                                                   |
| HAZARDOUS POLYMERIZATION: WILL NOT                                                                                         | OCCUR X                                   |                                                                                                   |
| SE                                                                                                                         | CTION VII: SPILL OR LEAK PROCEDU          | URES                                                                                              |
| STEPS TO BE TAKEN IN CASE MATERIAL IS                                                                                      | RELEASED OR SPILLED - Flush with          | water to sanitary sewer system.                                                                   |
| WASTE DISPOSAL METHOD - Same as above                                                                                      | e                                         |                                                                                                   |
| SECTION                                                                                                                    | ON VIII: SPECIAL PROTECTION INFO          | RMATION                                                                                           |
| RESPIRATORY PROTECTION (SPECIFY TYP                                                                                        | E) - None required                        |                                                                                                   |
| VENTILATION - Good general ventilation shoul some operations.                                                              | d be sufficient for most conditions. Loca | al exhaust ventilation may be necessary for                                                       |
| PROTECTIVE GLOVES (SPECIFY TYPE) Rubber gloves                                                                             | EYE PROTEC<br>Safety glasses              | TION (SPECIFY TYPE)                                                                               |
| OTHER PROTECTIVE EQUIPMENT - None red                                                                                      | quired                                    |                                                                                                   |
|                                                                                                                            | SECTION IX: SPECIAL PRECAUTION            | S                                                                                                 |
| PRECAUTIONS TO BE TAKEN IN HANDLING OTHER PRECAUTIONS - None                                                               | AND STORING - Keep from freezing          |                                                                                                   |

NAME -

TITLE

DATE

Ronald T Cook

SUPERCEDES July 18, 1996

February 11, 1998

Manager, Regulatory Affairs

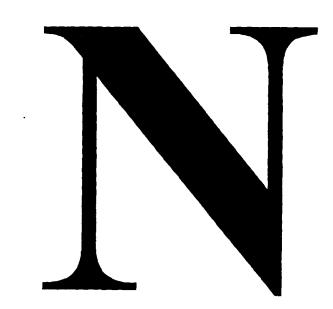
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Spartan Chemical Company, Inc.

Ref: 29 CFR 1910:1200 (OSHA)

SHINELINE MULTI SURFACE CLEANER





#### PREPARED BY DISTRIBUTOR:



A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131

# اهد جمه الهام المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحافظة المحاف

November 25, 1985

October 1, 1997

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986 and of 40CFR72).

For Information or In An Emergency Call: (847) 455-7111

| Nickel Based Alloy Steel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | / Trade Name                                                   |                                                               |                    |                            |                                                              |                                   | Commo    | n Name / (  |                                                           |                                          |         | <del></del> -                                       |                                 |                              |                                          | _   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------|---------------------------------------------------------------|--------------------|----------------------------|--------------------------------------------------------------|-----------------------------------|----------|-------------|-----------------------------------------------------------|------------------------------------------|---------|-----------------------------------------------------|---------------------------------|------------------------------|------------------------------------------|-----|
| E. Products Under Normal Concluins Do Not Represent An Inhabition. Ingestion or Contact Health Hazard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | Nickel Based Alloy                                             | Steel                                                         |                    |                            |                                                              |                                   |          |             |                                                           |                                          |         | oy 4XX,                                             | Incone                          | el Alloy                     | 6XX &                                    | 7X. |
| Base Mortal, Alloying Elements   And Mortalic Coatings   Base and Alloying Elements   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients   Ingredients    |            |                                                                |                                                               |                    | An John J                  | tion los                                                     |                                   | Contact  | Hoalth      | azasa                                                     | e de la p                                |         |                                                     |                                 |                              |                                          | Ş.  |
| Ingredients                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | E: Proc    | Base Metal, Alloying Ele                                       | ements                                                        |                    |                            | tuon, inge                                                   |                                   |          |             |                                                           | (3) AC                                   | GIH TLV | / TWA (Ui                                           | nless No                        | ted Othe                     | erwise) (mo                              | m³  |
| Aurningm (A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | And Metallic Coatin                                            | gs                                                            |                    |                            | Base a                                                       |                                   |          |             |                                                           |                                          |         |                                                     |                                 |                              | , , , , , , , , , , , , , , , , , , ,    |     |
| Chromium (Cf) 7440-47-3 05 5 0.02 (Dust & Firme) Nichum (Nb) 7440-03-1 N.E. N.E. (Total Dust (Cf) 7440-48-9 01 1 0.02 (Mel Mell) 749-98-6 1 1 0.02 (Mel Mell) 749-98-6 1 1 0.02 (Mell Mell) 749-98-6 1 1 0.02 (Mell Mell) 749-98-6 1 1 0.02 (Mell Mell) 749-98-6 1 1 0.02 (Mell Mell) 749-98-6 1 1 0.02 (Mell Mell) 749-98-6 1 1 0.02 (Mell Mell) 749-98-6 1 1 0.02 (Mell Mell) 749-98-6 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell) 749-98-7 1 1 0.02 (Mell Mell |            | Ingredients                                                    | CAS#                                                          | E                  | EL                         | TLV_(2)                                                      |                                   |          |             | Ingredie                                                  | nts                                      |         | CAS #                                               |                                 | PEL                          | TLV (2)                                  |     |
| No 2200 Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | Chromium (Cr) Cobalt (Co) Copper (Cu) Iron (Fe) Manganese (Mn) | 7440-47-3<br>7440-48-4<br>7440-50-8<br>7439-89-6<br>7439-96-5 |                    | .05<br>0.1<br>1<br>10<br>5 | .5<br>0.02 (Du<br>1 (Dust I<br>5 (As Iro<br>0.2<br>10 (Insol | ust & Fum<br>& Mist)<br>In Oxide) | npound)  | ints (1)    | Niobium<br>Silicon (:<br>Tantatun<br>Titanium<br>Tungster | (Nb)<br>Si)<br>n (Ta)<br>n (Ti)<br>n (W) |         | 7440-03<br>7740-21<br>7440-25<br>7440-32<br>7440-37 | 1-1<br>1-3<br>1-7<br>1-6<br>1-7 | N.E.<br>15<br>5<br>15<br>N.E | N.E.<br>10 (Total<br>5<br>10 (As Tr<br>5 |     |
| Commercially   Pure Ni Alloy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | UNS Numbers                                                    | Ai                                                            | Cr                 | Со                         |                                                              | <del>,`</del>                     | <u></u>  | <del></del> | Ni                                                        | Nb                                       | Si      | Ta                                                  | Ti                              | W                            | Υ                                        |     |
| No 5500 Series (Ni-Cu Alloyy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | (Commercially                                                  |                                                               | <2                 |                            |                                                              |                                   | <5       |             | 95-99                                                     |                                          |         |                                                     | <5                              | <5                           |                                          |     |
| No 7700 Series (Ni-Cr Alloy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | No 5500 Series                                                 | <5                                                            | <1                 |                            | 27-68                                                        | <1                                | <5       |             | 31-67                                                     |                                          | <1      |                                                     | <2                              |                              |                                          |     |
| No 9900 Series (Ni-Fe-Cr Alloy)  Of Alloying Material Varies With Grade Of Material.  (2) 1996 ACGIH Threshold Limit Value. (3) 1993 OSHA Permissable Exposure Limit.  Appearance and Odor Gray-Black, Odorless  Solid Gray-Black, Odorless  Specific Gravity  >2300° F Approximately 7  Approximately 7  Approximately 7  Fire and Explosion Hazards  NA  MOR 001064                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | No 7700 Series                                                 | <5                                                            | 15-48              | 0-13                       |                                                              | 1-40                              | <5       | 2-10        | 39-80                                                     | <5                                       |         | <2                                                  | <3                              | <5                           | <1                                       |     |
| (3) 1993 OSHA Permissable Exposure Limit.    Appearance and Odor   Appearance and Odor   Gray-Black, Odorless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | No 9900 Series                                                 | <5                                                            | .1-30              | 0-15                       | <2                                                           | 30-84                             | <1       | <5          | .1-42                                                     | <b>&lt;</b> 5                            |         |                                                     | <3                              |                              | <1                                       |     |
| Is (At Normal Conditions) Solid Point (Base Metal) Specific Gravity Appearance and Odor Gray-Black, Odorless Specific Gravity Approximately 7  Specific Gravity Approximately 7  Firefighting Procedures Steel products in the solid state present no fire or explosion hazard.  If ire and Explosion Hazards NA  MOR 001064  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Of Allo    | ying Material Varies With                                      | Grade Of Materi                                               | al.                | <del></del>                | <del></del>                                                  | <del></del>                       |          |             |                                                           |                                          |         | l imit                                              | <b>-</b>                        | <u> </u>                     | - <b>L</b>                               | 1   |
| Solid  Gray-Black, Odorless  Specific Gravity  >2300° F  Approximately 7  Shing Media NA  Firefighting Procedures Steel products in the solid state present no fire or explosion hazard.  I Fire and Explosion Hazards NA  MOR 001064  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | Porsta Data Maria                                              |                                                               | 21. 14.7<br>Harris |                            |                                                              |                                   |          |             | _                                                         | T                                        | est con | <b>3</b>                                            |                                 | A CONTRACT                   |                                          | Ė   |
| Specific Gravity  >2300° F  Approximately 7  Shing Media NA  Firefighting Procedures  Steel products in the solid state present no fire or explosion hazard.  Fire and Explosion Hazards NA  MOR 001064  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •          | ·                                                              |                                                               |                    |                            |                                                              |                                   | Appeara  |             |                                                           | k Oda                                    | rlass   |                                                     |                                 |                              |                                          |     |
| shing Media NA  Firefighting Procedures Steel products in the solid state present no fire or explosion hazard.  Fire and Explosion Hazards NA  MOR 001064  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                |                                                               |                    |                            |                                                              |                                   | Specific |             | ay Diac                                                   |                                          |         |                                                     |                                 |                              |                                          |     |
| Steel products in the solid state present no fire or explosion hazard.  Fire and Explosion Hazards  NA  MOR 001064  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | >2300º F                                                       |                                                               |                    |                            |                                                              |                                   |          | Αţ          | proxim                                                    | ately 7                                  | •       |                                                     |                                 |                              |                                          |     |
| Shing Media NA  Fireflighting Procedures Steel products in the solid state present no fire or explosion hazard.  I Fire and Explosion Hazards NA  MOR 001064  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1          | Edit Air Lineston                                              |                                                               |                    |                            |                                                              |                                   |          |             |                                                           |                                          |         |                                                     |                                 |                              |                                          | ¥   |
| Steel products in the solid state present no fire or explosion hazard.  I Fire and Explosion Hazards  NA  MOR 001064  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | edia                                                           |                                                               |                    |                            | الألي الإستان ساب                                            |                                   |          |             |                                                           |                                          |         |                                                     |                                 |                              |                                          |     |
| Steel products in the solid state present no fire or explosion hazard.  I Fire and Explosion Hazards  NA  MOR 001064  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Firelish   |                                                                |                                                               |                    |                            |                                                              |                                   |          |             |                                                           |                                          |         |                                                     | <del></del> -                   |                              |                                          |     |
| NA MOR 001064  On 5 - Reactivity Data  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | o . nge 11 | _                                                              | e solid state                                                 | presen             | t no fir                   | e or ex                                                      | plosion                           | hazar    | d.          |                                                           |                                          |         |                                                     |                                 |                              |                                          |     |
| NA MOR 001064  oò 5 - Reactivity Data  Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                |                                                               |                    |                            |                                                              |                                   |          |             |                                                           |                                          |         |                                                     |                                 |                              |                                          |     |
| on 5 - Reactivity Data Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | -                                                              |                                                               |                    |                            |                                                              |                                   |          |             |                                                           |                                          |         | ľ                                                   | MOR                             | 0010                         | 064                                      |     |
| Incompatability (Materials to Avoid)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                |                                                               |                    |                            |                                                              |                                   |          |             |                                                           |                                          |         |                                                     |                                 |                              |                                          | _   |
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Metallic dust or fumes may be produced during welding, burning, grinding and possibly machining.

Refer to ANSI Z49.1

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| Section 5 - Health Hazar                                | Data                                                                                           | 1000年1000年1000年100日                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Toxicology Prog                                         | nickel and their compounds a<br>gram (NTP). 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| Suspected Cancer Agent?                                 | NO: This product's ingredients are                                                             | not found in the lists below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| If exposed to ex                                        | cessive levels of metal fume                                                                   | s, remove to fresh air, seek i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Eyes - Flush wit                                        | th water for at least 15 minute                                                                | <del>9</del> S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Section 7 - Spill or Leak F<br>Spill or Leak Procedures | rocedures k                                                                                    | The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state 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| Waste Disposal Methods                                  |                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| According to loc                                        | cal, state and federal regulation                                                              | ons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Section 8 - Special Protec                              | tion                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| NIOSH/MSHA -<br>exposure excee                          | Approved dust and fume, reads TLV's.                                                           | spirator should be used to av                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| exposure excee                                          |                                                                                                | then welding, burning, sawin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|                                                         | or goggles should be utilized he welding standards.                                            | as required by exposure. Of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ther protective equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Section 9 - Special Preca                               | utions                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| In welding, prec                                        | autions should be taken for a                                                                  | irborne contaminants which                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | may originate from comp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | onents of the welding rod.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Arc or spark ger                                        | nerated when welding or burr                                                                   | ning could be a source of ign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ition for combustible and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| The information in this MSDS v                          | vas obtained from sources which we l                                                           | pelieve are reliable. However, the in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | formation is provided without an                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | y representation or warranty, express or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness.

The conditions or methods of handling storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.

Pex To 7/22/99

MATERIAL SAFETY DATA SHEET: NU-KOTE PAGE : 1 (002577-0139 -80175574-1937 ) DATE OF 1SSUE 06/14/94 SECTION I - GENERAL INFORMATION CHEMICAL NAME & SYNONYMS

N/A

CHEMICAL FAMILY:
SILICONE SOLUTION

TRADE NAME & SYNONYMS

NU-KOTE

FORMULA

X <--MIXTURE MANUFACTURE'S NAME: CHEMSEARCH DIV. OF NCH CORP. ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) BOX 152170 IRVING, TEXAS 75015 PREPARED BY: | PRODUCT CODE NUMBER | EMERGENCY TELEPHONE NUMBER R REEVES/CHEMIST 1937 214-438-1381 SECTION II - HAZARDOUS INGREDIENTS THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS CHEMICAL NAME (INGREDIENTS):
PDLYETHYLENE GLYCOL MONOLAURYLOXY
HAZARD---->IRR:
STEL(TWA)\*->N/E
CAS#-->61702-78-1
PEL--->N/E 2. SECTION IIA - NON-HAZARDOUS INGREDIENTS
NDN-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363-5020P SECTION III - PHYSICAL DATA MATERIAL SAFETY DATA SHEET: NU-KOTE PAGE: 2 (CONTINUED) - SECTION III - PHYSICAL DATA VAPOR PR. (MM HG) | 18 VAPOR DENSITY | 0.6 PH. ● 100% 6.0 CLARITY
EVAPORATION RATE
( BU A/C = 1 ) % VOLATILE BY VOL | 80 H2O SOLUBILITY | COMPLETE
VISCOSITY | NON-VISCOUS SECTION IV - FIRE AND EXPLOSION HAZARD FLASH POINT: NON-FLAM FLAMMABLE LIMITS N/A EXTINGUISHING MEDIA "ALCOHOL"

X <--FOAM X <--FOAM X <--CO2 X <--CHEMICAL X <--SPRAY X <--OTHER

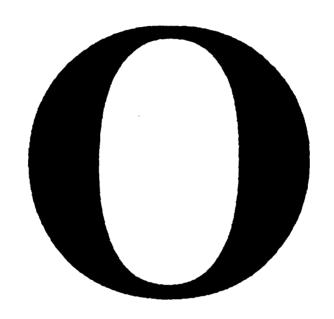
SPECIAL FIRE FIGHTING PROCEDURES
FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL
PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE
OF THE SURROUNDING. UNUSUAL FIRE AND EXPLOSION HAZARDS
SPRAY EXPOSED CONTAINERS WITH WATER TO PREVENT STEAM GENERATION.
BURNING MAY RELEASE SILICON DIOXIDE, CARBON DIOXIDE, AND TRACES OF
INCOMPLETELY BURNED CARBON PRODUCTS. NFPA HAZARD RATING (0=INSIGNIFICANT: 1=SLIGHT: 2=MODERATE: 3=HIGH: 4=EXTREME):
1 <--HEALTH 0 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL SECTION V - HEALTH HAZARD DATA THRESHOLD LIMIT VALUE: NOT ESTABLISHED.

| MATERIAL SAFETY DATA SH                                                                                                                                   |                                                                                             | ,                                            | PAGE : 3                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|
| (CONTINUED)                                                                                                                                               | - SECTION V - HEA                                                                           | LTH HAZARD DATA                              |                                             |
| EFFECTS OF OVEREXPOSURE :  EYES: MAY CAUSE IRRITATION SKIN: MAY CAUSE IRRITATION INGESTION: SWALLOWING LARGE                                              | - ACUTE - (SHOR<br>N, REDNESS, SWELLI<br>REDNESS, RASH.                                     | T TERM EXPOSURE)<br>NG.<br>E DIGESTIVE DISCO | MFORT.                                      |
| NO CHRONIC DATA ESTABLISHED<br>TARGET ORGANS: NONE KNOWN.<br>ALTHOUGH NO THERE IS NO PRI<br>ROUTE OF EXPOSURE IS BY EYE                                   | <b>)</b> .                                                                                  | NG TERM EXPOSURE)                            | THE PRIMARY                                 |
| PRIMARY ROUTE OF ENTRY: <-                                                                                                                                | - INHALATION <                                                                              | INGESTION < A                                | BSORPTION                                   |
| EMERGENCY & FIRST AID PROCE<br>INHALATION :<br>REMOVE FROM THE AREA TO FRE<br>IRRITATION DEVELOPS OR IF E                                                 | DURES SH AIR. SEEK MED. REATHING BECOMES (                                                  | ICAL ATTENTION IF                            | RESPIRATORY                                 |
| WITH PLENTY OF WATER FOR SE<br>ATION DEVELOPS.                                                                                                            |                                                                                             |                                              |                                             |
| SKIN CONTACT:<br>WASH AFFECTED AREAS WITH PL<br>SEEK MEDICAL ATTENTION IF I                                                                               |                                                                                             |                                              |                                             |
| INGESTION: GIVE 3 TO 4 GLASSES OF WATE OBJECT ON THE BACK OF THE V IS CLEAR. SEEK MEDICAL ATT  NOTES TO PHYSICIAN N/A                                     |                                                                                             | NG BY PLACING FING<br>SIVE FLUIDS UNTIL      | ER OR BLUNT<br>THE VOMITUS                  |
|                                                                                                                                                           |                                                                                             |                                              |                                             |
| SECTION                                                                                                                                                   | VI - TOXICITY INF                                                                           | FORMATION                                    |                                             |
|                                                                                                                                                           |                                                                                             |                                              |                                             |
| MATERIAL SAFETY DATA SHE<br>(CONTINUED) -                                                                                                                 | ET: NU-KOTE<br>Section VI - TOXIC                                                           | ITY INFORMATION                              | PAGE : 4                                    |
| PRODUCT CONTAINS CHEMICAL L                                                                                                                               | ISTED AS CARCINOGE                                                                          | N OR POTENTIAL CA                            | RCINOGEN BY:                                |
| IARC <yes <ye="" ntp="" td="" x<no="" x<no<=""><td>S OSHA <yes a<="" td=""><td></td><td>HER <yes<br>HER X<no< td=""></no<></yes<br></td></yes></td></yes> | S OSHA <yes a<="" td=""><td></td><td>HER <yes<br>HER X<no< td=""></no<></yes<br></td></yes> |                                              | HER <yes<br>HER X<no< td=""></no<></yes<br> |
| POLYETHYLENE GLYCOL MONOLAU<br>NO DATA FOUND.                                                                                                             | RYLDXY:                                                                                     |                                              |                                             |
| SECTI                                                                                                                                                     | ON VII - REACTIVIT                                                                          | Y DATA                                       |                                             |
| STABILITY X <stable <<="" td=""><td>UNSTABLE   COND</td><td>ITIONS TO AVOID</td><td></td></stable>                                                        | UNSTABLE   COND                                                                             | ITIONS TO AVOID                              |                                             |
| INCOMPATABILITY (MATERIALS STRONG OXIDIZERS.                                                                                                              | TO AVOID) :                                                                                 |                                              |                                             |
| HAZARDOUS DECOMPOSITION PRO<br>TRACES OF INCOMPLETELY BURN<br>SILICONE DIOXIDE, CARBON DI                                                                 | DUCTS<br>ED CARBON PRODUCTS<br>OXIDE                                                        |                                              |                                             |
| HAZARDOUS X <occur polymerization<="" td=""><td>Y MAY OCCUR</td><td>CONDITIONS TO AVO</td><td>ID</td></occur>                                             | Y MAY OCCUR                                                                                 | CONDITIONS TO AVO                            | ID                                          |
|                                                                                                                                                           |                                                                                             |                                              | ~                                           |
| SECTION VI                                                                                                                                                |                                                                                             |                                              |                                             |

| MATERIAL SAFETY DATA SHEET: NU-KOTE                                                                                                                                                                                                                                                                                                                                                                                                      | PAGE : 5        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| (CONTINUED) - SECTION VIII - SPILL OR LEAK PROCE                                                                                                                                                                                                                                                                                                                                                                                         | OUKES           |
| WASTE DISPOSAL METHOD(S):<br>DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL, AND LOCAL RE                                                                                                                                                                                                                                                                                                                                                  | GIN ATTOME      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| NEUTRALIZING AGENT :                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| SECTION IX - SPECIAL PROTECTION INFORMATION                                                                                                                                                                                                                                                                                                                                                                                              |                 |
| REQUIRED VENTILATION :                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |
| GENERAL EXHAUST IS USUALLY ADEQUATE.                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
| RESPIRATORY PROTECTION :                                                                                                                                                                                                                                                                                                                                                                                                                 | **              |
| NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.                                                                                                                                                                                                                                                                                                                                                                                             |                 |
| GLOVE PROTECTION :<br>NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.                                                                                                                                                                                                                                                                                                                                                                       |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| EYE PROTECTION: WEAR PROTECTIVE EYEWEAR IF METHOD OF APPLICATION PRESENTS THE LIKELIHOOD OF EYE CONTACT.                                                                                                                                                                                                                                                                                                                                 |                 |
| OTHER PROTECTION :                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| SECTION X - STORAGE AND HANDLING INFORMATION                                                                                                                                                                                                                                                                                                                                                                                             | J               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| STORAGE TEMPERATURE INDOOR HEATED REFRIG<br>MAX: 120 F. MIN: 35 F. X                                                                                                                                                                                                                                                                                                                                                                     |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
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| MATERIAL SAFETY DATA SHEET: NU-KOTE                                                                                                                                                                                                                                                                                                                                                                                                      | PAGE : 6        |
| (CONTINUED) - SECTION X - STORAGE AND HANDLING INFO                                                                                                                                                                                                                                                                                                                                                                                      |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| PRECAUTIONS TO BE TAKEN IN HANDLING & STORING KEEP FROM FREEZING. USE REASONABLE CARE AND                                                                                                                                                                                                                                                                                                                                                |                 |
| CAUTION.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |
| OTHER PRECAUTIONS<br>KEEP OUT OF REACH OF CHILDREN.                                                                                                                                                                                                                                                                                                                                                                                      |                 |
| READ ENTIRE LABEL BEFORE USING. FOLLOW LABEL<br>Directions. Avoid getting in Eyes.                                                                                                                                                                                                                                                                                                                                                       |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| SECTION XI - REGULATORY INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
| CHEMICAL NAME C.A.S NUMBER UPPER % L                                                                                                                                                                                                                                                                                                                                                                                                     | IMIT            |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
| THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZ 1986 AND 40 CF PART 372.  IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END U FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FORMITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FAC MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRAND LABELED FOR MAINTAINING MOTOR VEHICLES. | REQUIRMENTS OF  |
| 1986 AND 40 CFR PART 372.  IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END U FROM NOTIFICATION RECAUSE THE PRODUCT IS USED AND LARE FOR                                                                                                                                                                                                                                                                                           | SERS ARE EXEMPT |
| JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FAC<br>MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES). OR THE PR                                                                                                                                                                                                                                                                                                               | ILITY GROUNDS   |
| AND LABELED FOR MAINTAINING MOTOR VEHICLES.                                                                                                                                                                                                                                                                                                                                                                                              |                 |
| CALIFORNIA PROPOSITION 65 WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMIC                                                                                                                                                                                                                                                                                                                                                            | AL(S) KNOWN TO  |
| THE STATE OF CALIFORNIA TO CAUSE (1)CANCER OR (2)B OTHER REPRODUCTIVE HARM:                                                                                                                                                                                                                                                                                                                                                              | IRTH DEFECTS OR |
| NONE                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
| CECTION VII - TRANSPORTATION - (FOR ENTIRE ME                                                                                                                                                                                                                                                                                                                                                                                            | · ·             |
| SECTION XII - TRANSPORTATION * (FOR FUTURE US                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| LABELS ! LIMITED QT                                                                                                                                                                                                                                                                                                                                                                                                                      | Υ               |

| MATERIAL SAFETY DATA SHEET: NU-KOTE                                                                                                                                                                                                                                                     | PAGE: 7        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| (CONTINUED) - SECTION XII - TRANSPORTATION + (FOR FUT                                                                                                                                                                                                                                   | JRE USE)       |
| UNIT CONTAINER                                                                                                                                                                                                                                                                          |                |
| DOT SPS CONTAINER NET EXPLOSIV                                                                                                                                                                                                                                                          |                |
| AEROSOL PROPELLANT(S)                                                                                                                                                                                                                                                                   |                |
| *                                                                                                                                                                                                                                                                                       |                |
| SECTION XIII - REFERENCES  1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL BIOLOGICAL EXPOSURE INDICES, ACGIH, 1991-1992.  2. OSHA PEL.                                                                                                                                  | L AGENTS AND   |
| * SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS THE FEDERAL REGISTER/VOL. 54 NO. 12, 1-19-89                                                                                                                                                                              | PUBLISHED IN   |
| THE INFORMATION CONTAINED HERIN IS BASED ON DATA CONSIDERED A LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESE REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINS THEREOF.                                                                                   | SED OR IMPLIED |
| CHEMSEARCH DIV. OF NCH CORP. ASSUMES NO RESPONSIBILTY<br>INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE<br>OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDE<br>PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WIT<br>UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUC | D ON THE       |







# 1024K21,22

# **Material Safety Data Sheet**

**SECTION 1** 

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### **LUBRICATING OIL 100**

SALBO

MOTOR OIL, INC. 1490 JARVIS AVENUE ELK GROVE VILLAGE, IL 60007

Phone (847) 956-7550

Fax (847) 956-0399

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

CAS Registry Number

64742-54-7

Product Type
Preparation/Revision Date

High quality lubricating oil and non-detergent motor oil. SAE 30.

04/19/1995

| SECTION 2                      | COMPOSITION/INFORMATION ON INGREDIENTS |          |           |              |  |
|--------------------------------|----------------------------------------|----------|-----------|--------------|--|
| Component Name                 | CAS Number                             | OSHA PEL | ACGIH TLV | % (Optional) |  |
| Petroleum Lubricating Base Oil | 64742-54-7                             | 5 mg/m³  | 5 mg/m³   | 100          |  |

| SECTION 3           | HAZARDS IDENTIFICATION                                         |            |
|---------------------|----------------------------------------------------------------|------------|
| Principal Hazard(s) | Contains petroleum oil. Avoid breathing mists or vapors. Avoid |            |
|                     | prolonged or repeated skin contact.                            | MOR 001071 |

| SECTION 4  | FIRST AID MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Oral       | DO NOT induce vomiting. Get immediate medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Eye        | Flush with water for at least 15 minutes or until irritation subsides. Get medical attention if eye irritation develops or persists.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Skin       | Wash with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. |
| Inhalation | Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If adverse effects are observed, remove exposed person to fresh air. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If overexposed to oil mist, remove from further exposure until excessive oil mist, subsides.                                                                                                                                                                                                                   |

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| SECTION 5                           | FIRE FIGHTING MEASURES                                                                                                                                                                                                                                                                                                                                                                                            |  |  |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Flash Point                         | 490 °F COC Typical                                                                                                                                                                                                                                                                                                                                                                                                |  |  |
| Upper Flammable Limit               | Not Determined                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |
| Lower Flammable Limit               | Not Determined                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |
| Extinguishing Media                 | Carbon Dioxide, dry chemical, water spray (fog) and foam. Note: water, fog and foam may cause frothing and spattering.                                                                                                                                                                                                                                                                                            |  |  |
| Special Firefighting Procedures     | Wear self-contained breathing apparatus. Avoid breathing fumes and vapors. Use water spray (fog) to cool containers exposed to high heat or open flame.                                                                                                                                                                                                                                                           |  |  |
| Unusual Fire &<br>Explosion Hazards | Empty containers contain residue and/or vapors. DO NOT WELD, CUT, PRESSURIZE, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAME, STATIC ELECTRICITY OR OTHER SUCH SOURCES OF IGNITION. Keep empty containers closed and dispose of in an environmentally safe manner and in accordance with all governmental regulations.                                                              |  |  |
| Autoignition Temperature            | Not Determined                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |
| SECTION 6                           | ACCIDENTAL RELEASE MEASURES                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Spill Procedures                    | Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Remove sources of ignition. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Assure conformity with applicable Federal, state and local regulations. |  |  |
| SECTION 7                           | HANDLING AND STORAGE                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| Handling Procedures                 | Keep away from potential sources of ignition. Avoid breathing vapors if present. Keep containers closed when not in use. Wash thoroughly after handling. Make sure that proper warning labels are affixed in accordance with 29 CFR 1910.1200. Use good personal hygiene around product.                                                                                                                          |  |  |
| Storage Procedures                  | Do not store near potential sources of ignition. Store in a well ventilated area. Store in a dry area. Do not store around food or eating areas.                                                                                                                                                                                                                                                                  |  |  |
| SECTION 8                           | EXPOSURE CONTROLS: PERSONAL PROTECTION                                                                                                                                                                                                                                                                                                                                                                            |  |  |
| Ventilation Procedures              | Use material in well ventilated areas only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.                                                                                                                                                                                                                                                   |  |  |
| Gloves Protection                   | Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.                                                                                                                                                                                                                                                                                                                            |  |  |
| Eye Protection                      | Safety glasses. Use splash goggles or face shield when eye contact may occur.                                                                                                                                                                                                                                                                                                                                     |  |  |
| Respiratory Protection              | Under normal conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded.                                                                                                                                                                                                                                                     |  |  |
| Clothing Recommendation             | Use a chemical -resistant apron or other impervious clothing, if needed, to                                                                                                                                                                                                                                                                                                                                       |  |  |

avoid contaminating regular clothing, which could result in prolonged or

repeated skin contact.

Chris

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|                                                                                                                                                   | PHYSIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CAL AND CHEMICAL PROPERT                                                                                                                                                                  | IES                                                                                                                                                    |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Appearance                                                                                                                                        | Yellow colored liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Vapor Pressure                                                                                                                                                                            | Not Determined                                                                                                                                         |  |  |
| Specific Gravity                                                                                                                                  | 0.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Vapor Density (Air = 1)                                                                                                                                                                   | Greater than 5                                                                                                                                         |  |  |
| Viscosity                                                                                                                                         | 100 cSt @ 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Evaporation Rate                                                                                                                                                                          | Not Determined                                                                                                                                         |  |  |
| Odor                                                                                                                                              | Typical oil odor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pour or Melting Point                                                                                                                                                                     | 15 <b>°</b> F                                                                                                                                          |  |  |
| Odor Threshold                                                                                                                                    | Not Determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Percent Volatile                                                                                                                                                                          | Not Determined                                                                                                                                         |  |  |
| ьН                                                                                                                                                | Essentially neutral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Boiling Point</b>                                                                                                                                                                      | IBP approximately 635 °F                                                                                                                               |  |  |
| Water Solubility                                                                                                                                  | Negligible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Molecular Weight                                                                                                                                                                          | Not Determined                                                                                                                                         |  |  |
| SECTION 10                                                                                                                                        | STABIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TY AND REACTIVITY                                                                                                                                                                         |                                                                                                                                                        |  |  |
| Stability                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | normally stable at room tempe<br>nd Storage Section for further                                                                                                                           |                                                                                                                                                        |  |  |
| ncompatibility                                                                                                                                    | Oxidizing agents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                           |                                                                                                                                                        |  |  |
| lazardous Polymerization                                                                                                                          | Will not occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |                                                                                                                                                        |  |  |
| Thermal Decomposition                                                                                                                             | Fumes, sm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | oke, carbon monoxide, sulfur                                                                                                                                                              | exides, aldehydes and other                                                                                                                            |  |  |
|                                                                                                                                                   | decomposi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | tion products, in the case of in                                                                                                                                                          | •                                                                                                                                                      |  |  |
| SECTION 11                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | tion products, in the case of in<br>COGICAL INFORMATION                                                                                                                                   |                                                                                                                                                        |  |  |
| SECTION 11                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           | · ·                                                                                                                                                    |  |  |
| SECTION 11 Oral Toxicity                                                                                                                          | TOXICO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LOGICAL INFORMATION                                                                                                                                                                       | · ·                                                                                                                                                    |  |  |
| SECTION 11  Oral Toxicity  Eye Irritation                                                                                                         | Not determined.  Product contacting eyes of May cause skin irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LOGICAL INFORMATION                                                                                                                                                                       | MOR 001073                                                                                                                                             |  |  |
| SECTION 11  Oral Toxicity  Eye Irritation  Skin Irritation                                                                                        | Not determined.  Product contacting eyes of May cause skin irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | may cause eye irritation.  Prolonged or repeated contact                                                                                                                                  | MOR 001073                                                                                                                                             |  |  |
| SECTION 11  Oral Toxicity  Eye Irritation  Skin Irritation  Dermal Toxicity                                                                       | Not determined.  Product contacting eyes of May cause skin irritation.  Symptoms may include re-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | may cause eye irritation.  Prolonged or repeated contact                                                                                                                                  | MOR 001073                                                                                                                                             |  |  |
| SECTION 11  Drai Toxicity  Eye Irritation  Skin Irritation  Dermal Toxicity  nhalation Toxicity                                                   | Not determined.  Product contacting eyes of May cause skin irritation. Symptoms may include rendered.  Not determined.  If material is misted or if the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the second contacting eyes of the seco | may cause eye irritation.  Prolonged or repeated contact                                                                                                                                  | MOR 001073 t may cause dermatitis. ng and cracking of skin.                                                                                            |  |  |
| SECTION 11  Oral Toxicity  Eye Irritation  Skin Irritation  Dermal Toxicity  Inhalation Toxicity  Respiratory Irritation                          | Not determined.  Product contacting eyes of May cause skin irritation. Symptoms may include rendered.  Not determined.  If material is misted or if the irritation of mucous members.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | may cause eye irritation.  Prolonged or repeated contact adness, edema, drying, defattir                                                                                                  | MOR 001073 t may cause dermatitis. ng and cracking of skin. tting, exposure may cause ry tract.                                                        |  |  |
| SECTION 11  Oral Toxicity  Eye Irritation  Skin Irritation  Dermal Toxicity  Inhalation Toxicity  Respiratory Irritation  Dermal Sensitivity      | Not determined.  Product contacting eyes of May cause skin irritation. Symptoms may include rendered.  Not determined.  Not determined.  If material is misted or if the irritation of mucous membro indicates available to indicate the indicates available to indicate indicates and indicates available to indicate indicates and indicates available to indicate indicates and indicates available to indicate indicates and indicates available to indicate indicates and indicates available to indicate indicates and indicates are indicated indicates and indicates are indicated indicates and indicates are indicated indicates and indicates are indicated indicates and indicates are indicated indicated indicates and indicates are indicated indicated indicates and indicates are indicated indicated indicated indicated indicated indicates and indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated i | may cause eye irritation.  Prolonged or repeated contact adness, edema, drying, defatting the same are generated from healthness and the upper respirators.                               | MOR 001073 t may cause dermatitis. ng and cracking of skin.  ting, exposure may cause ry tract. ny be skin sensitizer.                                 |  |  |
| · · · · · · · · · · · · · · · · · · ·                                                                                                             | Not determined.  Product contacting eyes of May cause skin irritation. Symptoms may include rendered.  Not determined.  Not determined.  If material is misted or if the irritation of mucous membro indicates available to indicate the indicates available to indicate indicates and indicates available to indicate indicates and indicates available to indicate indicates and indicates available to indicate indicates and indicates available to indicate indicates and indicates available to indicate indicates and indicates are indicated indicates and indicates are indicated indicates and indicates are indicated indicates and indicates are indicated indicates and indicates are indicated indicated indicates and indicates are indicated indicated indicates and indicates are indicated indicated indicated indicated indicated indicates and indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated indicated i | may cause eye irritation.  Prolonged or repeated contact adness, edema, drying, defatting the same are generated from heat branes and the upper respirators are product or components may | MOR 001073 t may cause dermatitis. ng and cracking of skin.  ting, exposure may cause ry tract. ny be skin sensitizer.                                 |  |  |
| Deal Toxicity Eye Irritation Skin Irritation Dermal Toxicity Inhalation Toxicity Respiratory Irritation Dermal Sensitivity Inhalation Sensitivity | Not determined.  Product contacting eyes of May cause skin irritation. Symptoms may include report to the product determined.  Not determined.  If material is misted or if the irritation of mucous members available to indicate the Not determined.  No data available to indicate the components of this product is not determined.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | may cause eye irritation.  Prolonged or repeated contact adness, edema, drying, defatting the same are generated from heat branes and the upper respirators are product or components may | MOR 001073 t may cause dermatitis. Ing and cracking of skin. Iting, exposure may cause ry tract. By be skin sensitizer. By be respiratory sensitizers. |  |  |

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**SECTION 12** 

**ECOLOGICAL INFORMATION** 

No Data Given

**SECTION 13** 

DISPOSAL CONSIDERATIONS

**Waste Disposal** 

Waste management should be in compliance with federal, state and local regulations. If discarding this product, do not flush to drain/storm sewer. Consider recycling. If permitted, incineration may be practical.

SECTION 14

#### TRANSPORTATION INFORMATION

U. S. DOT Shipping Name

Not regulated by DOT

Hazard Class

Not applicable

**DOT Identification Number** 

Not applicable

**DOT Shipping Label** 

Not regulated by DOT

#### **SECTION 15**

#### REGULATORY INFORMATION

U. S. TSCA Inventory

All components of this product are listed on the TSCA Inventory

SARA 302 Threshold Planning Quantity

No RQ for product or any constituent greater that 1% or 0.1% (carcinogen).

SARA 304 Reportable Qty

No RQ for product or any constituent greater that 1% or 0.1% (carcinogen).

SARA 311 Categories

EPA Hazard Classification Code

| Acute | Chronic | Fire | Pressure | Reactivity |
|-------|---------|------|----------|------------|
| No    | No      | No   | No       | No         |

SARA 313 Supplier

Notification

This product does not contain greater than 1.0% (greater than 0.1% for

carcinogenic substance) of any chemical substances listed under SARA Section

313.

**CERCLA Hazardous** 

Substances

No chemicals in this product are subject to the reporting requirements of

CERCLA.

#### **SECTION 16**

#### OTHER INFORMATION

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

2 = Moderata

HEALTH = 1

1 = Slight

Ratings: 0 = Minimal

FIRE = 1

REACTIVITY = 0

3 = Serious

4 = Extreme

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, MOTOR OIL INC. makes no representations as to the completeness or accuracy thereof. MOTOR OIL INC, makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE since the conditions of use are beyond our control. MOTOR OIL INC. assumes no responsibility for injury to recipient or to third persons for any damage to any property and recipient assumes all such risks.

AUG-17-1999 09:27

#### CYLESSTIC TK 460

EXON COMPANY, U.S.A. ADVISION OF EMEN COMPONITION

DATE ISSUED:

03/22/99

SUPERSEDES DATE: 01/24/97

Rec. # 8/18/99

# MATERIAL SAFETY DATA SHEET

"EXXON COMPANY, U. S. A. P. O. BOX 2180 HOUSTON, TX 77252-2180

# A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME
CYLESSTIC TK 460

PRODUCT CODE 322610 - 02510

PRODUCT CATEGORY
Petroleum Lubricating 011

PRODUCT APPEARANCE AND ODOR Clear, dark brown liquid Mild fatty odor

MEDICAL EMERGENCY TELEPHONE NUMBER: (713) 656-3424

TRANSPORTATION EMERGENCY TELEPHONE NUMBERS
(BAYTOWN) (281) 834-3296 (CHEMTREC) 1-800-424-9300

FOR PRODUCT INFORMATION AND TECHNICAL ASSISTANCE CALL: 1-800-443-9966

FOR A FAXED COPY OF AN MSDS DIAL: 1-890-298-4007

FOR AN MSDS OR ASSISTANCE WITH AN MSDS, DIRECT INQUIRIES TO THE ADDRESS BELON OR CALL:

MARKETING TECHNICAL SERVICES
EXXON COMPANY, U.S.A.
ROOM 2344
P. O. BOX 2180
HOUSTON, TX 77252-2180
(713) 656-5949

# B. COMPONENTS AND HAZARD INFORMATION

| COMPONENTS CONCENTRATION                                                           |           |
|------------------------------------------------------------------------------------|-----------|
| Distillates (petroleum), hydrotreated 64742-54-7 Greater than 94% heavy paraffinic |           |
| or or                                                                              |           |
| Distillates (petroleum), solvent- 64742-65-0 dewaxed heavy paraffinic              |           |
| and bare                                                                           |           |
| Residual oils (petroleum), solvent- 64742-62-7 dewaxed                             |           |
| and and                                                                            |           |
| Residual oils (petroleum), hydrotreated 64742-57-0 MO                              | OR 001075 |

# **FAX COVER SHEET**

Famous Lubricants, Inc. 124 W. 47th Street Chicago, Illinois 60609 USA Phone: 773-268-2555 Fax: 773-268-5815

|                                                                                                       |                                             | 1              |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------|
| SEND TO                                                                                               |                                             |                |
| Company name                                                                                          | From                                        |                |
| When Corn                                                                                             | mr.                                         | i .<br>1       |
| The contract of                                                                                       | Date                                        | <del></del> -  |
| Attention Bucybo                                                                                      | 8/17/99                                     | 1              |
| Office location                                                                                       | Office location                             | <del></del>    |
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| 630 - 960 - 7484                                                                                      | Phone number                                |                |
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|                                                                                                       |                                             | ) .            |

Petroleum resins

64742-16-1

Proprietary additives

Mixture Less than 6% This product, as manufactured by Exxon, does not contain polychlorinated

biphenyls (PCB's).

All components of this product are listed on the U.S. TSCA inventory.

See Section E for Health and Hazard Information.

See Section H for additional Environmental Information.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health Flammability Reactivity

1 EXPOSURE LIMIT FOR TOTAL PRODUCT

5 mg/m3 for oil mist (aerosol) for

an 8-hour workday

Recommended by Exxon

BASIS

**OSHA** Regulation 29 CFR 1910.1000 and recommended by the American Conference of Governmental Industrial Hygienists (ACGIH). ACGIH states that the air is to be sampled by a method that does not collect vapor; in addition, it lists a 10 mg/m3 STEL.

# C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

#### EYE CONTACT

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

#### SKIN

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### INHALATION

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If overexposed to oil mist, remove from further exposure until excessive oil mist condition subsides.

#### INGESTION

If ingested, DO NOT induce vomiting; call a physician immediately.

# D. FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM) 249°C (48D°F)

AUTOIGNITION TEMPERATURE Greater than 260°C'(500°F) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION
Health Flammability Reactivity BASIS

1 0 Recommended by Exxon

#### HANDLING PRECAUTIONS

Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.

FLANMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)
Estimated values: Lower Flanmable Limit 0.9% Upper Flanmable Limit 7%

#### EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES

Foam, water spray (fog), dry chemical, carbon dioxida and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):
Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire.
Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

#### DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

#### "EMPTY" CONTAINER WARNING

"Empty" containers retain residue (liquid and/or vapor) and cas be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI 249.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

# E. HEALTH AND HAZARD INFORMATION

#### VARIABILITY AMONG INDIVIDUALS

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure):

HUG-17-1999 09:29 FRUM FAMOUS LUBRICANTS INC. and increased incidence of

infection.

In accordance with the current OSHA Hazard Communication Standard criteria. this product does not require a cancer hazard warning. This is because the product is formulated from base stocks which are severely hydrotreated, severely solvent extracted, and/or processed by mild hydrotreatment and extraction. Alternatively, it may consist of components not otherwise affected by IARC criteria, such as atmospheric distillates or synthetically derived materials, and as such is not characterized by current IARC classification criteria.

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body waight, and an acute darmal LD50 (rabbit) greater than 3.16 g/kg of body

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE None recognized

# F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE IBP Approximately 321°C (610°F) by ASTM D 2887

SPECIFIC GRAVITY (15.6-C/15.6-C) 0.92

**MOLECULAR WEIGHT** Not determined

Essentially neutral

POUR, CONGEALING OR HELTING POINT -7"C (20"F) Pour Point by ASTM D 97

VISCOSITY 429 c5t # 46°C VAPOR PRESSURE less than 0.01 mm Hg & 20-C

VAPOR DENSITY (AIR = 1) Greater than 5

PERCENT VOLATILE BY VOLUME Nagligible from open container in 4 hours @ 38°C (100°F)

EVAPORATION RATE @ 1 ATM. AND 25°C (77~F) (n-BUTYL ACETATE = 1) Less than 0.01

SOLUBILITY IN WATER # 1 ATM. AND 25-C (77-F) Negligible; Tess than 0.1%!

# G. REACTIVITY

P. 96

# H. ENVIRONMENTAL INFORMATION

#### CLEAN WATER ACT / OIL POLLUTION ACT

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface vaters that cause a sheen must be reported to the National Response Center (1-800-424-8802).

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Open all windows and doors. Keep product out of severs and watercourses by diking or impounding. Advise authorities if product has entered or may enter severs, watercourses, or extensive land areas.

Assure conformity with applicable governmental regulations.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA Sections 301-304)

No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)

No toxic chemical is present greater than 1% or 0.1% (carcinogen).

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)

EPA Hazard Classification Code: Not Applicable

# I. PROTECTION AND PRECAUTIONS

#### VENTILATION

Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

#### RESPIRATORY PROTECTION

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

#### PROTECTIVE GLOVES

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

#### EYE PROTECTION

Use splash goggles or face shield when eye contact may occur.

#### OTHER PROTECTIVE EQUIPMENT

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with (THE) National Fire Protection Association PUBLICATIONS.

Keep containers closed when not in use. Do not store near heat, sparks, flame

or strong oxidante.

In order to prevent fire or explosion hazards, use appropriate equipment. Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-7D). This document is available from the National Fire Protection Association, Batterymarch Fark, Quincy, Massachusetts 02269.

PERSONAL HYGIENE

Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean before re-use; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

# J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

#### TRANSPORTATION INCIDENT INFORMATION

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

# U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION Not regulated

#### OSHA REQUIRED LABEL INFORMATION

In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

Note: Product label may contain non-OSHA related information also.

The health and safety information presented herein must be used in conjunction with the pertinent standards for training, work practices and facilities design established by OSHA, NIOSH, NFPA, API, NEC, NSC, UNDERWRITERS, BUREAU OF MINES, and similar organizations.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not varrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

NFO TECHNOLOGIES

MATERIAL SAFETY DATA SHEET

2140 South 88th Street - Kansas City, KS USA 66111-8701 - (913) 422-4022 - Fax (913) 441-2333

MATERIAL SAFETY DATA SHEET

PRODUCT: AIRLUBE NR (ALL GRADES)

SECTION I

MANUFACTURER : CENTURY LUBRICANTS CO.

ADDRESS : 2140 S. 88TH ST.

TELEPHONE CHEM TREC

913 791 3645 800-424-9300

KANSAS CITY, KS 66111-8701 REVISION DATE: 1/28/96 475004-13 DOC 507

: PREPARED BY : M.D. HART

SECTION II

CHEMICAL AND PHYSICAL PROPERTIES

SOLUBLITY IN WATER (@ 20 C): SLIGHT SPECIFIC GRAVITY (WATER=1): < 1.0

VAPOR PRESSURE (mmHg @ 20 C): < 0.1

EVAPORATION RATE (ether = 1): < 0.01 PERCENT VOLATILE (by weight): ZERO

VAPOR DENSITY (AIR): > 1.0

STRONG ACID : NO STRONG BASE : NO

BOILING POINT (DEG F): +600 F

MELTING POINT (DEG F): N.A.

APPEARANCE AND ODOR: AMBER LIQUID, MILD PETROLEUM ODOR

SECTION III

REACTIVITY DATA

STABILITY : STABLE

INCOMPATIBILITY: KEEP AWAY FROM STRONG OXIDIZERS

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

SECTION IV

FIRE AND EXPLOSION DATA

PLASH POINT (METHOD): 300 F COC MIN. EST FLAMMABLE LIMITS-LEL: UNK UEL: UNK

DRYCHEMICAL(X) CO2 (X) WATERSPRAY ( ) FOAM (X) EXTINGUISHING AGENTS:

SPECIAL FIRE FIGHTING: PROCEDURES

Avoid breathing vapors. Use breathing apparatus in confined areas. Cool exposed containers with waterspray

HAZARDOUS THERMAL : DECOMPOSITION PRODUCT

Carbon monoxide, carbon dioxide and unidentified

organic compounds.

MOR 001083

SECTION V

PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO TAKE IN : Add absorbent to spill area. Keep petroleum products out of sewers and waterways. Advise authorities if they do enter. CASE OF SPILL

WASTE DISPOSAL METHOD

: Dispose of at appropriate waste facility in accordance with regulations. Expected to be a hazardous waste D018, Benzene

PRECAUTIONS IN STORAGE

: Keep containers closed when not in use. Do not handle near heat, flames, sparks. Do not weld or heat empty containers.

475004-13

|                                              |                                                                                 | 4/5004=13                                                                               |
|----------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| SECTIO                                       | N VI BEALTH HAZARD DAT                                                          | λ                                                                                       |
| PERMISSIBLE                                  | CONCENTRATIONS (AIR) : None est                                                 | ablished                                                                                |
| ROUTE                                        | : EFFECT OF OVEREXPOSURE                                                        | : EMERGENCY FIRST AID PROCEDURE                                                         |
| EXES                                         | : NONE EXPECTED                                                                 | : FLUSH WITH WATER. SEE PHYSICIAN                                                       |
| SKIN                                         | : HARMFUL IF ABSORBED THRU SKIN : MAY CAUSE IRRITATION :                        | : WASH WITH SOAP AND WATER. IF HIG<br>: PRESSURE, GET IMMEDIATE MEDICAL<br>: ATTENTION. |
| INHALATION                                   | : MIST MAY CAUSE IRRITATION                                                     | REMOVE FROM CONTAMINATED AREA                                                           |
| ngestion                                     | : NONE EXPECTED                                                                 | :<br>:<br>:<br>:                                                                        |
| CHRONIC                                      | : MAY CAUSE ALLERGIC SKIN REACTION: WAS A POSITIVE FOR THE AMES SAI             |                                                                                         |
| HAZARDOUS II                                 | NGREDIENTS TLV, TWA, PE                                                         | L IARC, NTP, OSHA                                                                       |
| MINERAL                                      | OIL TLV 5mg/M (M                                                                | NOT LISTED                                                                              |
| Performance                                  | ADDITIVE < 5%* TWA 0.5 PPM                                                      | (SUPPLIER) NOT LISTED                                                                   |
| SECTION                                      | N VII CONTROL MEASURES                                                          |                                                                                         |
|                                              | PROTECTION : USE ORGANIC VAPOR RE                                               | SPIRATOR IF TWA IS EXCEEDED                                                             |
| VENTILATION<br>SKIN PROTECT                  | TYPE : GENERAL ADEQUATE. US NOT SURPASSED WHERE FION : CHEMICALLY RESISTANT BYE |                                                                                         |
| OTHER PROTEC<br>MEASURE:                     | CTIVE<br>S : NONE NORMALLY NEEDED                                               |                                                                                         |
| SECTION                                      | N VIII MISCELLANEOUS                                                            | MOR 001084                                                                              |
| UNK MEANS UN<br>EST MEANS ES<br>N.A. MEANS D |                                                                                 | HMIS 1,0,0 B                                                                            |
| + CONTIANS                                   | 3% ZINC COMOUND WHICH IS REGULAT                                                | ED UNDER SECTION 313 OF SARA                                                            |
|                                              |                                                                                 |                                                                                         |

The information contained herein is based on data considered accurate. However, no warranty, expressed or implied, is given regarding the accuracy of these

# Give your pneumatic equipment a new lease on life...

with NFO's AIR LUBE, a specially formulated lubricant for pneumatic equipment

Keep your pneumatic equipment running longer — up to three times longer — cleaner with less downtime and greater power using NFO's AIR LUBES.

#### THE ISSUE

Virtually every manufacturing or processing plant utilizes pneumatic powered equipment. The life and performance of these air tools are essential to the productivity and operation of the plant. Excessive downtime, slower performing tools and shorter tool life can easily destroy productivity gains made elsewhere. Inadequate lubrication of these pneumatic operated tools is one of the major contributors to poor performance.

#### THE PERFORMANCE

Air contains moisture, dirt, dust, and other contaminates that can interfere with the proper functioning of pneumatic equipment. Moisture exists in virtually all air lines due to the relative humidity in the air and the condensation caused by the expansion and cooling of compressed air. Air line lubricants that are not specially

formulated to operate in the presence of moisture can interact with the moisture to form sludge, rust, and gum. This can be especially true for tools that are left in storage for any length of time. Other contaminates can pass through the filter system and cause varnishes and sticky substances to form in the tools and air lines thus lowering the performance of the tools. Lubricants such as hydraulic oils, motor oils, and penetrating oils, commonly used in air tools are not designed for air systems and are not able to combat the moisture and contaminates.

#### THE SOLUTION

NFO's AIR LUBE family of products is specifically designed for pneumatic equipment and air operated tools.

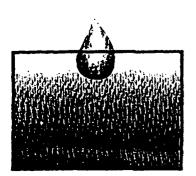
- AIR LUBE's special emulsifiers can absorb up to 10% of its weight in water which prevents the formation of gum and sludge.
- AIR LUBE's base oil, unlike most conventional oils, will not leave hard carbon deposits that can rob equipment of power.

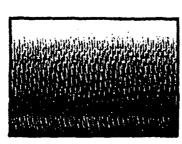
- AIR LUBEs contain anti-wear and extreme pressure additives which will provide additional lubrication for the gears and other moving parts of heavily loaded tools.
- AIR LUBE's corrosion preventative package helps prevent the rust that can occur in tools and airlines due to the moisture carried in the air.
- AIR LUBE's formulation is designed not to affect rubber or plastic valves and seals.

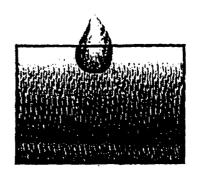
#### THE RESULTS

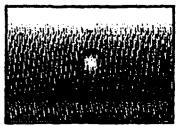
With as few as three drops a minute of NFO's AIR LINE lubricant, you can expect the following added benefits from your pneumatic equipment and tools:

- Increased Life
- More power
- Longer service life
- Storage protection
- Lower lubricant usage
- Decreased total cost of pneumatic system









| PROPERTY                        |               | TYPICAL PHYSICAL PROPERTIES                       |        |                                            |                                                  |                                                                  |                                                                 |
|---------------------------------|---------------|---------------------------------------------------|--------|--------------------------------------------|--------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|
|                                 | TEST METHOD   | 10W/NR                                            | 10H/NR | ΑĒ                                         | <u> AA</u>                                       | 10/PAO                                                           | ATC-85                                                          |
| Appearance                      | Visual        | clear                                             | clear  | green                                      | clear                                            | clear                                                            | lt. yello                                                       |
| Density, lbs/gal<br>60 °F (16°C | ASTM D - 1298 | 7.6                                               | 7.3    | 9.0                                        | 7.1                                              | 6.9                                                              | 7.0                                                             |
| Viscosity, sus                  | ASTM D - 445  |                                                   |        |                                            |                                                  |                                                                  |                                                                 |
| 40°C                            |               | 110                                               | 155    | 80                                         | 90                                               | 140                                                              | 36                                                              |
| 100℃                            |               | 39                                                | 44     | 34                                         | 40                                               | 44                                                               | _                                                               |
| Viscosity Index                 | ASTM D - 2270 | 65                                                | > 100  | n/a                                        | >140                                             | 130                                                              | -                                                               |
| Pour Point                      | ASTM D - 97   |                                                   |        |                                            |                                                  |                                                                  |                                                                 |
| ok                              |               | < - 40                                            | + 5    | < - 50                                     | + 5                                              | - 70                                                             | -75                                                             |
| ە⊂                              |               | < . 40                                            | < - 23 | < - 46                                     | - 12                                             | -57                                                              | -59                                                             |
| Flash Point (COC)               | ASTM D - 92   |                                                   |        |                                            |                                                  |                                                                  |                                                                 |
| ٥F                              |               | 400                                               | 400    | 250                                        | 370                                              | 455                                                              | 210                                                             |
| •C                              |               | 204                                               | 204    | 121                                        | 188                                              | 235                                                              | 99                                                              |
| Fire Point (COC)                | ASTM D - 92   |                                                   |        |                                            |                                                  |                                                                  |                                                                 |
| ٥F                              |               | 450                                               | 450    | 300                                        | 410                                              | 505                                                              | 250                                                             |
| <b>°</b> C                      |               | 232                                               | 232    | 149                                        | 210                                              | 263                                                              | 121                                                             |
| Emulsibility                    | NFO Method    |                                                   |        |                                            |                                                  |                                                                  |                                                                 |
| H <sub>2</sub> O absorp         |               | 100                                               | 100    | n/a                                        | 100                                              | 100                                                              | n/a                                                             |
| H <sub>2</sub> O separat        | tion > 2 hrs. | pass                                              | pass   | n/a                                        | pass                                             | pass                                                             |                                                                 |
| Shell 4 Ball Wear<br>(mm)       | D - 2596      | 0.50                                              | 0.47   | 0.94                                       | 0.83                                             | 0.35                                                             | n/a                                                             |
| Application                     |               | General purpose for the majority of applications. | 1      | Winter Grade<br>for low temp<br>conditions | USDA H-1 approved for tood service requirements, | Synthetic base for wider temp range and elastomer Compatibility. | Air Tool Clean<br>for removal or<br>rust, dirt, and<br>vernish. |

These high quality AIR LUBES are available in a wide variety of package sizes that allow the end user to choose the application method best suited to their environment. The packages include, 55 gallon drums, 120 lb. kegs, 5 gallon pails, 1 gallon cans, and plastic pint bottles. NFO AIR LUBEs are also available in several other viscosity grades for extreme applications.

#### A partial listing of leading manufacturers that recommend or use NFO's AIR LUBE

- · Kenworth Truck · Georgia Pacific · ITW Paslode Stanley Air Tools Rotor Tool Magnus Equipment ·
  - Beardsley & Piper Kent Tool Cleveland Vibrator Intool, formerly Dresser •



#### SAFETY DATA MATERIAL SHEET

ORANGE INDUSTRIAL LUBE. 390

PAGE 1 OF 4

NPPA HAZARD RATING

4 - EXTREME

3 - HIGH

2 - MODERATE

1 - SLIGHT

0 - INSIGNIFICANT



DIVISION AND LOCATION - SECTION 1 DIVISION: Pamous Lubricants, Inc.

LOCATION: 124 W. 47TH Street

Chicago, Illinois 60609

EMERGENCY TELEPHONE NUMBER: 312-268-2555 

CHEMICAL AND PHYSICAL PROPERTIES - SECTION II

CHEMICAL NAME: petroleum hydrocarbon plus additives

PORMULA: not applicable

HAZARDOUS DECOMPOSITION PRODUCTS:

oxides of phosphorous from burning

hydrochloric acid on burning or decompostion

oxides of sulfur

sulfur dioxide or hydrogen sulfide, depending upon decomposition conditions

oxides of nitrogen

carbon monoxide and carbon dioxide from burning

chlorinated hydrocarbons

INCOMPATIBILITY (KEEP AWAY FROM):

strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

TOXIC AND HAZARDOUS INGREDIENTS:

none

ODOR: mineral oil FORM: semi-solid COLOR: dark amber APPEARANCE: grease

SPECIFIC GRAVITY (WATER = 1): @ room temperature .935

BOILING POINT: no data available

MELTING POINT: not applicable

SOLUBILITY IN WATER (BY WEIGHT %): negligible at 25°C VOLATILE (BY WEIGHT%): not applicable

EVAPORATION RATE: not applicable

VAPOR PRESSURE (mm Hg AT 20°C): not applicable VAPOR DENSITY (AIR=1): not applicable

pH (AS IS): not applicable

STABILITY: product is stable under normal conditions

VISCOSITY SUS @ 100°F: 1 100

Continued on next page

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#### SAFETY DATA MATERIAL

SHEET

ORANGE INDUSTRIAL LUBE. 390 PAGE 2 OF 4 FIRE AND EXPLOSION DATA - SECTION III SPECIAL FIRE FIGHTING PROCEDURES: dense smoke, fire fighters should wear an approved self-contained breathing apparatus. do no use water except as fog. UNUSUAL FIRE AND EXPLOSION HAZARDS: dense smoke FLASHPOINT: (Method Used) Cleveland Open Cup > 170°C (338°F) FLAMMABLE LIMITS &: no data available EXTINGUISHING AGENTS: dry chemical or water fog or CO2 or foam or sand/earth water may cause frothing closed containers exposed to fire may be cooled with water HEALTH HAZARD DATA - SECTION IV PERMISSIBLE CONCENTRATIONS (air): not applicable CHRONIC EFFECTS OF OVEREXPOSURE: none when used with good personal hygiene practices. may otherwise cause skin and eye irritation upon prolonged or

TO

repeated contact. ACUTE TOXICOLOGICAL PROPERTIES:

no data available

EMERGENCY FIRST AID PROCEDURES:

EYES: immediately flush with large quantities of water for at least 15 minutes and call a physician.

SKIN CONTACT: remove excess with cloth or paper. wash thoroughly with soap and water. for high pressure injection under skin see physician immed. INHALATION: remove exposed person to fresh air if discomfort is experienced while handling hot product.

IF SWALLOWED: contact physician immediately.

ADVICE TO PHYSICIANS:

high velocity injection under the skin may result in serious injury. if left untreated the affected area is subject to infection, disfigurement, lack of blood circulation and may require amputation. when dispensed by high pressure equipment this material can easily penetrate the skin and leave a bloodless puncture wound. material injected into a finger be deposited into the palm of the hand. Within 24-48 hours the patient may experience swelling, discoloration, and throbbing pain in the affected area. immediate treatment by a surgical specialist is recommended.

SPECIAL PROTECTION INFORMATION - SECTION V

VENTILATION TYPE REQUIRED (Local, mechanical, special):

RESPIRATORY PROTECTION (Specify type):

none

continued on next page

LEGIAL SAFETY DATA ORANGE INDUSTRIAL LUBE. 390

SHEET PAGE 3 OF 4

EYE PROTECTION:

chemical safety goggles and, if handled hot, full face shield

PROTECTIVE GLOVES:

none

OTHER PROTECTIVE EQUIPMENT:

DODA

HANDLING OF SPILLS OR LEAKS - SECTION V1

PROCEDURES FOR CLEAN-UP:

transfer bulk of mixture into another container. absorb residue with an inert material such as earth, sand, or vermiculite. sweep up and dispose as solid waste in accordance with local, state, and federal regulations.

WASTE DISPOSAL:

dispose of in accordance with all applicable federal, state and local reculations.

SPECIAL PRECAUTIONS - SECTION VII

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

keep containers closed until ready for use.

TRANSPORTATION DATA - SECTION VII

D.O.T.: not required

REPORTABLE QUANTITY: not applicable

FREIGHT CLASSIFICATION: petroleum lubricating grease.

SPECIAL TRANSPORTATION NOTES:

ENVIRONMENTAL/SAPETY REGULATIONS - SECTION IX

SECTION 313 (TITLE III SUPERFUND AMENDMENT AND REAUTHORIZATION ACT): this product does not contain any chemical in sufficient quantity to be subject to reporting requirements of Section 313 of Title III of the Superfund

Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372.

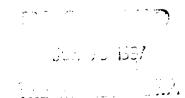
STATE RIGHT TO KNOW INFORMATION:

NEW JERSEY - petroleum oil (grease) PENNSYLVANIA - formula trade secret

COMMENTS

KEEP OUT OF REACH OF CHILDREN

Continued on next page



JUN-04-1997 14:33 FROM FAMOUS LUBRICANTS INC. 16309607484 P.02

ORANGE INDUSTRIAL LUBE. 390

PAGE 4 OF 4

(COMMENTS continued)

SIGNATURE: GEORGE JUNKER TITLE: TECHNICAL DIRECTOR REVISION DATE: 1/23/91 SUPERCEDES: 9/28/88

WE BELIEVE THE STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HERBIN ARE RELIABLE, BUT THEY ARE GIVEN WITHOUT WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, AND WE ASSUME NO RESPONSIBILITY FOR ANY LOSS, DAMAGE, OR EXPENSE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THEIR USB.

MOR 001090

Jul. 6 & 1997

THE ROLL COM.

# JOHN OF IOUR THICK TIMES THE THEORY CONTROLS INC.

PAGE 1 OF 5 MATERIAL SAFETY DATA SHEET

MANUFACTURER

Famous Lubricants. Inc.

124 W. 47th St.

Chicago, Ill. 60609

CHENICAL NAME

Petroleum Lubricating Oil PRODUCT APPEARANCE AND ODOR

Clear, light yellow liquid Bland hydrocarbon odor

PRODUCT NAME

Orange Turbine Oil 150 R & O

PRODUCT CODE - None

CAS NUMBER

Complex Hixture

EHERGENCY TELEPHONE NUMBER

**733新紀-**268-2555

HEALTH

Non-hazardous

Except if fumes are generated (OHCS)

PRECAUTIONARY STATEMENT

COMPONENTS AND HAZARD INFORMATION

HAZARDOUS HATERIAL IDENTIFICATION SYSTEM BASIS

Health 1 Flammability 1 Reactivity 0

Recommended by Famous Lubricants

EXPOSURE LIMIT FOR PRODUCT  $5 \text{ mg/m}^3$  for oil mist in air

5 mg/m<sup>3</sup> for oil mist or fumes

BASIS

OSHA Reg. 29 CFR 1910.00 Recommended by the American Conference of Governmental

Hygienists (ACGIH)

Greater than 99 %

STEL

HAZARD DATA

 $10 \text{ ag/m}^3$ 

COMPONENTS CAS#

Petroleum Oil Base Stock 64742-54-7

Distillates, solvent-

or

dewaxed heavy paraffinic 64742-65-0

Proprietary additives Hixture

Less than 1% As manufactured, this product does not contain PCB's

All components of this product are listed on the US TSCA inventory

PHYSICAL HAZARD CLASSIFICATION

(Per OSHA Reg. 29 CFR 1910.1200)

No Combustible No Oxidizer No Compressed Gas No Organic Peroxide

\*(Product could burn if heated to temperature above flashpoint)

< 0.01

No Pyrophoric

No Explosive No Reactivity

No Unstable

Yes Flammable\* Yes Stable

PRODUCT LISTED AS POTENTIAL CARCINGGEN OR CARCINGGEN BY:

NTP No IARC No OSHA No Other No

PHYSICAL DATA

BOILING RANGE ASTH D 2887

IBP approximately 560°F

SPECIFIC GRAVITY H20=1 0.88

VAPOR PRESSURE nm Hg

% VOLATILE BY VOLUME Negligible

POUR POINT ASTH D 97

-22°F

> 5

VAPOR DENSITY

PAGE 2 OF 5

īU

#### MATERIAL SAFETY DATA SHEET ORANGE TURBINE DIL 150

EVAPORATION RATE @ 1 ATH. n-BUTYL ACETATE = 1 <0.01

SOL. IN H20 8 1 ATM. < 0.1%

VISCOSITY ASTM 150 SUS VISCOSITY ISO-VG 32 cSt @ 40°C

PH UNDILUTED ESSENTIALLY NEUTRAL

ROUTES OF ENTRY AND FIRST AID PROCEDURES

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

#### SKIN

In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water. If product is injected into or under the skin. or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressur injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### INHALATION

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from point of exposure and call a physician. If breathing is irregular or has stopped, start resuscitation and administer oxygen. If over exposed to oil mist, remove from further exposure until excessive oil mist subsides.

#### INGESTION

DO NOT induce vomiting if ingested: CALL A PHYSICIAN AT ONCE

FIRE AND EXPLOSION DATA

FLASH POINT ASTN D 92 Cleveland Open Cup 400°F

AUTOIGNITION TEMP. >500°F

NATIONAL FIRE PROTECTION ASSOC. -NFPA- HAZARD IDENTIFICATION 1 Health 1 Flammability Q Reactivity

0=Insignificant

1=Slight 2=Moderate 3=High

4=Extreme

#### HANDLING PRECAUTIONS

Use product with caution, around heat, sparks, pilot lights, open flame, and static electricity.

FLANHABLE OR EXPLOSIVE LIMITS - VOLUME & IN AIR - ESTIMATED VALUES Lower Flammable Limit - 0.9% Upper Flammable Limit - 7%

#### EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for fires involving this type of product, depending on size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities. The following procedures for this type of product are based on the recommendations in the NFPA'S "FIRE PROTECTION GUIDE on HAZARDOUS HATERIALS", 8th Ed. : Use water spray, dry chemical, foam or carbon dioxide.

FAGE 3 OF 5

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# MATERIAL SAFETY DATA SHEET

TION TORROS CONTROPINO 1170.

Use water to keep fire exposed containers cool. If a leak or a spill has not ignited use water spray to disperse the vapor and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Hinimize breathing gases, vapor, fumes or products of decomposition. Use supplied-air breathing apparatus for enclosed and confined areas.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes, nitrogen oxides, and other decomposition products, in the case of incomplete combustion.

#### EMPTY CONTAINER WARNING

Empty containers can retain residue, either liquid or vapor and could be dangerous. On not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition; THEY HAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to the lubricant supplier or to a drum reconditioner. All other containers should be disposed of in environmentally safe manner and in accordance with governmental regulations.

HEALTH AND HAZARD INFORMATION

#### HEALTH STUDIES

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

SIGNS AND SYMPTOMS OF EXPOSURE OR OVEREXPOSURE
Prolonged or repeated skin contact may cause skin irritation.

#### NATURE OF HAZARD AND TOXICITY

Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection.

Current OSHA Hazard Communication Standards do not require this product to have a cancer hazard warning. This is because the product is formulated from base oils which are either severely hydrotreated or severely solvent extracted. Repeated skin contact with this product tends to remove skin oils, possibly leading to irritation or dermatitis. Based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA. Product contacting the eyes may cause eye irritation. The product has a low order of acute oral and dermal toxicity. However, minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possible death. This product is judged to have and an acute Oral Lethal Dose 50% (rat) greater than 5 g/Kg of body weight and an acute Dermal Lethal Dose 50% (rabbit) greater than 3.16 g/Kg of body weight. There are no recognized pre-existing medical conditions which may be aggravated by exposure to this product.

PRE-EXISTING HEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE None recognized

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FAGE 4 OF 5

# MATERIAL SAFETY DATA SHEET

ORANGE TURBINE DIL 150

#### REACTIVITY DATA

This product is stable and will NOT react violently with water. Hazardous polymerization will NOT occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite and calcium hypochlorite.

#### ENVIRONHENTAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Recover spilled product. Add sand, earth or other suitable absorbant to spill area. Minimize breathing vapors. Minimize skin contact. Open all windows and doors. Keep product out of sewers and watercourses. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Conform with all governmental regulations.

REPORTABLE QUANTITY (RQ) EPA REG. 40 CFR 302 CERCLA SECT. 102 No RQ for product or any constituent greater than 1% or 0.1% (carcinogen).

THRESHOLD PLANNING QUANTITY (TPQ) EPA REG. 40 CFR 355 SARA SECT.301-304 No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

TOXIC CHEMICAL RELEASE REPORTING EPA REG. 40 CFR 372 SARA SECT.313 No toxic chemical is present greater than 1% or 0.1% (carcinogen).

EPA HAZARD CLASSIFICATION CODE EPA REG. 40 CFR 370 SARA SECT.311-312 No Acute No Chronic No Fire No Pressure No Reactive XX Not applicable

#### CLEAN WATER ACT

Under Section 311 (b) (4) Clean Water Act, discharges of crude oil and petroleum products in any kind or form to surface waters must be immediately reported to the National Response Center 800-424-8802.

TOXIC SUBSTANCE CONTROL ACT

This product does not contain any TSCA 12b reportable chemical substance:

#### SPECIAL PROTECTION INFORMATION

#### VENTILATION

Use local exhaust to capture vapor, mists or fumes. Provide enough ventilation to prevent exceeding recommended exposure limit or build-up of explosive concentrations of vapor in air. Use explosion-proof equipment, No smoking or open flame.

#### RESPIRATORY PROTECTION

Use supplied-air respiratory protection in confined or enclosed areas.

#### PROTECTIVE GLOVES

Use chemical-resistant gloves, if needed, to prevent prolonged contact.

MOR 001094

Use splash goggles or face shield when eye contact may occur.

#### OTHER PROTECTIVE EQUIPMENT

·Use chemical-resistant apron, if needed, to avoid contaminating regular clothing which could result in prolonged skin contact.

PAGE 5 OF 5

#### MATERIAL SAFETY DATA SHEET ORANGE TURBINE DIL 150

WORK PRACTICES AND CONTROLS

Keep containers closed when not in use. DO NOT store near heat. Keep away from sparks, open flace and/or strong oxidants. Store below 150°F.

Minimize breathing vapor, mist or fumes. Avoid prolonged skin contact. Remove contaminated clothing, launder before using again. Thoroughly clean oil soaked shoes, discard if necessary. Cleanse skin thoroughly after contact. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

#### TRANSPORTATION AND LABEL DATA

DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping Name:

Petroleum lubricating oil

Hazard Class: Non-hazardous Hazard Identification No: None assigned

Shipping Containers: No restrictions

Warning Placard:

None assigned

#### OSHA LABEL INFORMATION

OSHA Hazard Warnings are not applicable for this product.

#### TRANSPORTATION INCIDENT INFORMATION

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for hazardous materials incidents - DOT P - 5800.3

#### GENERAL COMMENTS

ALL STATEMENTS, information and data provided in this material safety data sheet are believed to be accurate and reliable. They are presented without guarantee, warranty or responsibility of any kind, expressed or implied, on our part. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. Nothing contained herein is intended as permission, inducement, or recommendation to violate any laws or to practice any invention covered by existing patents.

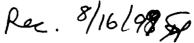
For further information on health effects, please contact:

Technical Director

Revision Date:02/95 Supercedes: 05/94

Famous Lubricants, Inc. 124 W. 47th Street Chicago, Illinois 60609 733 ### 268-2555

TMC #-1016637





# 3-IN-ONE®



## MATERIAL SAFETY DATA SHEET

#### I. PRODUCT IDENTIFICATION

Manufacturer:

WD-40 Company

Address:

1061 Cudahy Place (92110)

P.O. Box 80607 San Diego, California

92138-0607

Telephone:

Emergency Only: 1 (800) 424-9300

(CHEMIDEC)

(CHEMTREC)

Information:

(619) 275-1400

Chemical Name:

Organic Mixture

Trade Name:

Three-In-One Multi-Purpose Oil

#### **II. HAZARDOUS INGREDIENTS**

| Chemical Name                              | CAS Number | %    | Exposure Limit ACGIH/OSHA |
|--------------------------------------------|------------|------|---------------------------|
| Severely Hydrotreated Heavy Naphthenic Oil | 64742-52-5 | > 97 | 5 mg/M³ TWA (mist)        |
| Non-hazardous Ingredients                  |            | < 3  |                           |

#### III. PHYSICAL DATA

Appearance:

Clear amber liquid

Odor: Boiling Point: Faint citronella Above 550°F

Not applicable

Freezing Point: Solubility in Water:

Insoluble

Volatiles:

pH:

Nil

Specific Gravity:

Not applicable 0.886 - 0.923 @ 20°C

Vapor Pressure:

re: Not determined

Vapor Density (Air = 1):

Not determined

MOR 001096

#### IV. FIRE AND EXPLOSION

Flash Point:

Above 305°F TOC

Flame Extension:

Not applicable

Extinguishing Media: Fire Fighting Procedures:

CO<sub>2</sub>, Dry Chemical, Foam, Water Spray Use water to keep fire-exposed containers cool.

#### V. HEALTH HAZARD / ROUTE(S) OF ENTRY

#### Symptoms of Overexposure

Inhalation (Breathing):

May cause anesthesia, headache, dizziness, nausea and upper respiratory irritation.

Skin Contact:

May cause drying of skin and/or irritation.

Eye Contact:

May cause irritation, tearing and redness.

Ingestion (Swallowed):

May cause irritation, nausea, vomiting and diarrhea.

First Aid Procedures

Ingestion (Swallowed):

Do not induce vomiting. Seek medical attention.

Eye Contact:

Immediately flush eyes with large amounts of water for 15 minutes.

Skin Contact:

Wash with soap and water.

inhalation (Breathing):

Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

DANGER!

Aspiration Hazard:

If swallowed, can enter lungs and may cause chemical pneumonitis.

Do not induce vomiting. Call Physician Immediately.

Suspected Cancer Agent

Yes \_\_\_\_ No \_\_x

The components in this mixture have been found to be noncarcinogenic by NTP, IARC

and OSHA.

| VI. | REACTI | VITY | DATA |
|-----|--------|------|------|
|     |        |      |      |

| · · · · · · · · · · · · · · · · · · · |                         |                                                    |
|---------------------------------------|-------------------------|----------------------------------------------------|
| Stability:                            | Stable X                | Unstable                                           |
| Conditions to avoid:                  | NA                      |                                                    |
| Incompatibility:                      | Strong oxidizing materi | als                                                |
| Hazardous decomposition products:     | Thermal decomposition   | n may yield carbon monoxide and/or carbon dioxide. |
| Hazardous polymerization:             | May occur               | Will not occurX                                    |
| , -                                   |                         |                                                    |

#### VII. SPILL OR LEAK PROCEDURES

#### Spill Response Procedures

Absorb small quantities with sand, earth, sawdust. Large quantities pump into tank,

#### Waste Disposal Method

Incinerate liquid, bury saturated absorbent in land fill. Dispose of in accordance with local, state and federal regulations.

#### VIII. SPECIAL HANDLING INFORMATION

Ventilation Requirements: Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation

sufficient to prevent exceeding recommended exposure limit or build-up of explosive

concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

Respiratory Protection: Use air respiratory protection in confined or enclosed spaces, if needed.

Protective Gloves: Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

Eye Protection: Use splash goggles or face shield when eye contact may occur.

#### IX. SPECIAL PRECAUTIONS

Keep from open flame. Do not take internally, Avoid excessive inhalation of vapors. Keep from children.

#### X. REGULATORY INFORMATION

All ingredients for this product are listed on the TSCA inventory.

SARA Title III chemicals: None

California Prop 65 chemicals: None
CERCLA reportable quantity: None

RCRA hazardous waste no.: None

SIGNATURE: R. Miles

TITLE: Technical Director

REVISION DATE: October 1997

SUPERSEDES: January 1996

We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied, it is the user's responsibility both to determine sale conditions for use of this product and assume loss, damage or expense, direct or consequential, ansing from its use. Before using product, read label.

MSDS 3/8







## MATERIAL SAFETY DATA SHEE

#### I. PRODUCT IDENTIFICATION

Manufacturer:

WD-40 Company

Address:

1061 Cudahy Place (92110)

P.O. Box 80607 San Diego, California

92138-0607

Telephone:

Emergency Only: 1 (800) 424-9300 (CHEMTREC)

(619) 275-1400

Information: Chemical Name:

Organic Mixture

Trade Name:

WD-40 Aerosol

Item No.

10002, 10005, 10008, 10011,

10013, 10016, 10023

#### II. HAZARDOUS INGREDIENTS

| Chemical Name                   | CAS Number | %     | Exposure Limit<br>ACGIH/OSHA |      |
|---------------------------------|------------|-------|------------------------------|------|
| Aliphatic Petroleum Distillates | 8052-41-3  | 60-70 | 100 ppm PEL                  |      |
| Petroleum Base Oil              | 64742-65-0 | 15-25 | 5 mg/M³ TWA (mi              | ist) |
| Carbon Dioxide                  | 124-38-9   | 2-3   | 5000 ppm PEL                 |      |
| Non-hazardous Ingredients       |            | <10   |                              |      |

#### III. PHYSICAL DATA

**Boiling Point:** 

Vapor Density (air = 1):

Solubility in Water:

Specific Gravity (H<sub>2</sub>0 = 1):

Percent Volatile (volume):

NA

Greater than 1 Insoluble

0.816 @ 70°F

70%

Evaporation Rate: Vapor Pressure:

Appearance:

Odor:

Not determined

110 +5 PSI @ 70°F

Light amber

Characteristic odor

#### IV. FIRE AND EXPLOSION

Flash Point:

Flammable Limits:

Extinguishing Media:

Special Fire Fighting Procedures:

Unusual Fire and Explosion Hazards:

Tag Open Cup 110°F (minimum)

(Solvent Portion) [Lel] 1.0% [Uel] 6.0%

CO2, Dry Chemical, Foam Contents Under Pressure

FLAMMABLE - U.F.C. level 3 AEROSOL

#### V. HEALTH HAZARD / ROUTE(S) OF ENTRY

#### Threshold Limit Value

Aliphatic Petroleum Distillates (Stoddard solvent) lowest TLV (ACGIH 100 ppm.)

Symptoms of Overexposure

Inhalation (Breathing):

May cause anesthesia, headache, dizziness, nausea and upper respiratory irritation.

**Skin Contact:** May cause drying of skin and/or irritation. May cause irritation, tearing and redness. Eye Contact:

Ingestion (Swallowed):

May cause irritation, nausea, vomiting and diarrhea.

MOR 001098

First Aid Emergency Procedures

Ingestion (Swallowed):

Do not induce vomiting, seek medical attention.

Eye Contact: Skin Contact: Immediately flush eyes with large amounts of water for 15 minutes.

Wash with soap and water.

Inhalation (Breathing):

Remove to fresh air. Give artificial respiration if necessary.

If breathing is difficult, give oxygen.

Pre-existing medical conditions such as eye, skin and respiratory disorders may be aggravated by exposure.

DANGER!

Aspiration Hazard:

If swallowed, can enter lungs and may cause chemical pneumonitis.

Do not induce vomiting. Call Physician immediately.

Suspected Cancer Agent

The components in this mixture have been found to be noncarcinogenic by NTP, IARC Yes \_\_\_\_\_ No \_\_X\_\_

and OSHA.

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| VI | RF | AC7 | TIVIT' | Y DA | TA |
|----|----|-----|--------|------|----|
|    |    |     |        |      |    |

| StableX                    | Unstable                                                     |                                                                                           |
|----------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| NA .                       | -<br>-                                                       |                                                                                           |
| Strong oxidizing materials |                                                              |                                                                                           |
| Thermal decomposition ma   | ay yield carbon monoxide and/or carb                         | on dioxide.                                                                               |
| May occur                  | Will not occurx                                              |                                                                                           |
|                            | NA<br>Strong oxidizing materials<br>Thermal decomposition ma | NA Strong oxidizing materials Thermal decomposition may yield carbon monoxide and/or carb |

#### VII. SPILL OR LEAK PROCEDURES

#### Spill Response Procedures

Spill unlikely from aerosol cans. Leaking cans should be placed in plastic bag or open pail until pressure has dissipated. Waste Disposal Method

Empty aerosol cans should not be punctured or incinerated; bury in land fill. Liquid should be incinerated or buried in land fill. Dispose of in accordance with local, state and federal regulations.

#### VIII. SPECIAL HANDLING INFORMATION

Ventilation: - Sufficient to keep solvent vapor less than TLV.

Respiratory Protection: Advised when concentrations exceed TLV. Protective Gloves: Advised to prevent possible skin irritation.

Eye Protection: Approved eye protection to safeguard against potential eye contact,

irritation or injury.

Other Protective Equipment: None required.

#### IX. SPECIAL PRECAUTIONS

#### X. TRANSPORTATION DATA (49 CFR 172.101)

Domestic Surface

Description:

Consumer Commodity

Hazard Class:

ORM-D

ID No.:

NONE

Label Required:

Consumer Commodity (ORM-D)

Domestic Air

Description:

Consumer Commodity (Non-Flammable Gas - Aerosol)

Hazard Class:

ORM-D

ID No.:

NONE

Label Required:

Consumer Commodity (ORM-D-AIR)

#### XI. REGULATORY INFORMATION

SARA Title III chemicals:

None

California Prop 65 chemicals:

None

CERCLA reportable quantity:

None

RCRA hazardous waste no.:

D001 (Ignitable)

| SIGNATURE: R. Miles REVISION DATE: | March 1998              | SUPERSEDES: | Technical Direction June 1996 | ector         |
|------------------------------------|-------------------------|-------------|-------------------------------|---------------|
| NA = Not applicable                | NDA = No data available | < = Les     | s than                        | > = More than |

We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied. It is the user's responsibility both to determine sale conditions for use of this product and assume loss, damage or expense, direct or consequential, arising from its use. Before using product, read label.

MSDS-A

# MATERIAL SAFETY DATA SHEET



4700 W. 160TH Street P.O. Box 35906 Cleveland, Ohio 44135 Emergency Tel No. (303) 623-5716 Collect

#### OATEY CLEANER

|           | est Revision Dat                                                                                                                                                            | · ·                                                               |                                                |                                                    | sue03/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16/98                      |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| _         | tion 1                                                                                                                                                                      |                                                                   | ENTITY OF                                      | MATERIAL                                           | :2============                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | =======                    |
|           | TRADE NAMEOATEY CL PRODUCT NUMBERS 30766, FORMULACH(3)CO SYNONYMSMethyl                                                                                                     | 30779, 30782, 30795<br>C(2)H(5)+CH(3)COCH(<br>Ethyl Ketone and Ac | 3)<br>etone                                    | .======================================            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | TION 2                                                                                                                                                                      |                                                                   | RDOUS ING                                      |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | INGREDIENTS                                                                                                                                                                 |                                                                   | <u>*                                      </u> | CAS NUMBER                                         | SEC 313                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |
|           | Methyl Ethyl Ketone Acetone                                                                                                                                                 |                                                                   | 85-95%                                         | 78-93-3                                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |
| = ==      | :=====================================                                                                                                                                      | ==========                                                        | 1-10 <b>%</b><br>========                      | 67-64-1<br>====================================    | No<br>:==========                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | =======                    |
| <u>SĒ</u> | TION 3                                                                                                                                                                      | KNOWN HAZAI                                                       | RDS UNDER                                      | 29 CFR 1910.12                                     | 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
|           | HAZARDS                                                                                                                                                                     | YES                                                               | <u>No</u>                                      | <u>HAZARDS</u>                                     | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u>NO</u>                  |
|           | Combustible Liquid                                                                                                                                                          |                                                                   | ×                                              | Skin Hazard                                        | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _                          |
|           | Flammable Liquid                                                                                                                                                            | ×                                                                 |                                                | Eye Hazard                                         | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
|           | Pyrophoric Material                                                                                                                                                         |                                                                   | ×                                              | Toxic Agent                                        | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
|           | Explosive Material                                                                                                                                                          |                                                                   | ×                                              | Highly Toxic Agent                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | x                          |
|           | Unstable Material Water Reactive Material                                                                                                                                   |                                                                   | x                                              | Sensitizer                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | x<br>x                     |
|           | Oxidizer                                                                                                                                                                    |                                                                   | ×<br>×                                         | Kidney Toxin Reproductive Toxin                    | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ^                          |
|           | Organic Peroxide                                                                                                                                                            |                                                                   | ×                                              | Blood Toxin                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ×                          |
|           | Corrosive Material                                                                                                                                                          |                                                                   | ×                                              | Nervous System Toxin                               | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
|           | Compressed Gas                                                                                                                                                              |                                                                   | ×                                              | Lung Toxin                                         | ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
|           | Irritant                                                                                                                                                                    | x                                                                 |                                                | Liver Toxin                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ×                          |
|           | Carcinogen NTP/IARC/OSHA                                                                                                                                                    |                                                                   | x                                              |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | TION 4                                                                                                                                                                      |                                                                   | REGULAT                                        |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _~======                   |
|           | CHEMICAL TLV (7                                                                                                                                                             |                                                                   |                                                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | azard Action Level         |
|           | Methyl Ethyl Ketone 200 pp<br>Acetone 750 pp                                                                                                                                | om, 1800 mg/cum                                                   |                                                | <u> </u>                                           | :00 ppm, 885 msg/cum<br>:00 ppm, 24:00 msg/cum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | N/A                        |
|           |                                                                                                                                                                             |                                                                   | =======                                        | =======================================            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | =======                    |
| SEC       | TION 5                                                                                                                                                                      | REGU                                                              | LATED ID                                       | <u>ENTIFICATION</u>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | DOT PROPER SHIPPING NAME                                                                                                                                                    |                                                                   | MODITY ORM-D;                                  | Cleaning Compound.                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | DOT HAZARD CLASS                                                                                                                                                            | · ·                                                               |                                                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | SHIPPING ID NUMBER<br>EPA HAZARDOUS WASTE ID NUMB                                                                                                                           | •                                                                 |                                                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | EPA HAZARDOUS WASTE ID NOME                                                                                                                                                 |                                                                   | te/Tovic Waste                                 | •                                                  | `                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
| SEC.      | TION 6                                                                                                                                                                      | ==========                                                        | ======                                         |                                                    | =======================================                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ======                     |
|           | ENTRY ROUTE INHALE -                                                                                                                                                        | YES INGEST - YES                                                  | SKIN - YES                                     | S EYE - YES                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | INHALATION May cause                                                                                                                                                        |                                                                   |                                                | <del>-</del>                                       | lizziness, nausea, numbne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ess of the                 |
|           |                                                                                                                                                                             |                                                                   |                                                | ions. Has caused CNS depr                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           |                                                                                                                                                                             |                                                                   |                                                | irdation of fetal developm                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | SKIN Chronic contact may lead to irritation & dermatitis. Chronic exposure to vapors of high concentration may cause dermatitis. May possibly be absorbed through the skin. |                                                                   |                                                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | BYE Vapors or direct contact may cause irritation.                                                                                                                          |                                                                   |                                                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | INGESTION May be asp                                                                                                                                                        | irated into the lur                                               | gs or cause sy                                 | stemic effects described                           | under inhalation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
|           | TARGET ORGANS Bye, Skin,                                                                                                                                                    |                                                                   |                                                |                                                    | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |
|           |                                                                                                                                                                             | ENCY AND FI                                                       | RST AID                                        | PROCEDURES - 30                                    | 3/623-5716 COL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LECT                       |
|           | SKIN If irritation EYES If fumes caus                                                                                                                                       | arises, wash thoro                                                | oughly with soa                                | ip and water. Seek medica                          | l attention if irritation of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of t | on persists.<br>irritation |
|           |                                                                                                                                                                             | k medical attention                                               |                                                |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |
|           | INHALATION Move to fresh                                                                                                                                                    | air. If breathing                                                 | is difficult,                                  |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | respiration.               |
|           | INGESTION Drink water a                                                                                                                                                     | nd call a poison co                                               | ntrol center o                                 | trol center or physician or physician immediately. | Avoid alcoholic beverage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ges. Never give            |
|           |                                                                                                                                                                             | outh to an unconsci                                               |                                                | - Elanguage summari                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - <del>*</del>             |
|           |                                                                                                                                                                             |                                                                   | -                                              | (Cont                                              | inued on next i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | nage)                      |

(Continued on next page)



#### OATEY CLEANER

| SECTION 8                                                                                         | PHYSICAL AND CHEMICAL PROPERTIES                                                                                                                                            |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NFPA HAZARD SIGNAL HEALTH BOILING POINT 133 Degrees MELTING POINT N/A VAPOR PRESSURE 186 mmHg % 2 |                                                                                                                                                                             |
| VAPOR DENSITY (AIR = 1) 2.0 VOLATILE COMPONENTS 100% SOLUBILITY IN WATER 27.1% wt. 3              |                                                                                                                                                                             |
| PH                                                                                                |                                                                                                                                                                             |
| APPEARANCE Colorless Lize ODOR Sharp, penetr WILL DISSOLVE IN Water, organi                       | rating odor.                                                                                                                                                                |
| MATERIAL IS Liquid                                                                                | FIRE AND EXPLOSION HAZARD DATA                                                                                                                                              |
| SECTION 9                                                                                         | FIRE AND EXPLOSION HAZARD DATA                                                                                                                                              |
|                                                                                                   | Degrees F. / PMCC e CONDITIONS TO AVOID: Heat, sparks and open flame. HAZARDOUS DECCMP. PDTS.:                                                                              |
| HAZARDOUS POLYMERIZATION Will INCOMPATIBILITY/MAT. TO AVOID Acids                                 | , oxidizing materials, alkalis, chlorinated inorganics (potassium, calcium and                                                                                              |
| SPECIAL FIRE FIGHTING PROCEDURE FOR S<br>Evacu                                                    | m hypochlorite), copper or copper alloys MALL FIRES: Use dry chemical, CO2, water or foam extinguisher. FOR LARGE FIRES: ate area and call Fire Department immediately.     |
| SECTION 10                                                                                        | SPILL AND DISPOSAL INFORMATION                                                                                                                                              |
|                                                                                                   | ea, stop leak if it can be done without risk. Take up with sand, earth, or other<br>ble absorbing material.                                                                 |
|                                                                                                   | ccording to local, state, and Federal regulations.  SAFE USAGE DATA                                                                                                         |
|                                                                                                   | ety glasses with side shields. RESPIRATORY: NIOSH-approved cannister respirator in adequate ventilation. GLOVES: Rubber Gloves OTHER: Bye wash and safety shower available. |
| VENTILATION GENERAL ME                                                                            | CHANICAL: Exhaust ventilation capable of maintaining emissions at the point of use LOCAL EXHAUST: Open doors & windows. If used in enclosed area, use exhaust fans.         |
| Containers                                                                                        | STORAGE: Keep away from heat, sparks and flames; store in cool, dry place. OTHER: , even empties will retain residue and vapors.                                            |
| SECTION 12                                                                                        | MANUFACTURER OR SUPPLIER DATA                                                                                                                                               |
| OATEY PHONE NUMBER (216) 267                                                                      | , 4700 West 160th Street P.O. Box 35906 Cleveland, Ohio 44135<br>-7100<br>ency First Aid call (303) 623-5716 COLLECT For chemical transportation emergencies                |
| ON                                                                                                | LY, call Chemtrec at 1-800-424-9300                                                                                                                                         |
| SECTION 13                                                                                        | DISCLAIMER                                                                                                                                                                  |

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, Oatey cannot give any guarantees regarding information from other sources, and expressly does not make warranties, nor assumes any liability for its use.





lidoN

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642F23

Mobil

=75007=

HORES VACUUM PURP OS

601906-00 Page 2 of 5

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REVISED:11/27/90
 HOBIL YACUUM PUMP OIL
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MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

HOBIL OIL CORP. CHEMICAL NAMES AND STHONYMS: PETROLEUM HYDROCARBONS USE OR DESCRIPTION: JIO GRUG PUND OIL

REALTH ENERGENCY TELEPHONE: (609) 737-4411 TRANSPORT EMERGENCY TELEPHONE:
(800) 424-9300 (CHENTREC)
PRODUCT TECHNICAL INFORMATION: (800) 462-4525

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AFFEARANCE: Lt. Amber Liquid 000R: Mild VISCOSITY AT 100 F, SUS: 311.1 AT 40 C, CS: 60.0 VISCOSITY AT 210 F, SUS: 52.4 AT 100 C, CS: 7.8 FLASH POINT F(C): > 400(204) (ASIN D-P2) NELTING POINT F(C): > 600(316) POUR POINT F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) VISCOSITY F(C): > 600(316) POUR POINT F(C): 10(-12) SOLUBILITY IN WATER: Negligible NA-Net Applicable NE-Net Established D-Decomposes FOR FURTHER INFORMATION, CONTACT YOUR LOCAL MARKETING OFFICE.

None

SEE SECTIONS ALL AND ALLE FOR REGULATORY AND FURTHER COMPOSITIONAL DATA.

SOURCES: A-ACGIN-TLV. A\*-Suggested-TLV. M-Mobil. O-OSRA. S-Supplier NOTE: Limits shown for guidance only. Fallow applicable regulations.

--- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED --THRESHOLD LIMIT VALUE: 3.00 mg/m3 Suggested for Oil Nist
EFFECTS OF OVEREXPOSURE: Not expected to be a problem.

V. EMERGENCY AND FIRST AID PROCEDURES

--- FOR PRIMARY ROUTES OF ENTRY
--ETE CONTACT: Flush with water.

SKIN CONTACT: Wash contact areas with soap and water.

INALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem when ingested. If unconfortable seek medical assistance.

#### Mobil

MOBIL VACUUM PUMP OIL

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testing of similar products and/or the components.

SKIN IRRITATION (RASBITS): Expected to be mon-irritating. ---Based on testing of similar products and/or the components.

---SUSCHROWIC TOXICOLOGY (SUNUMY)---

---SISCHROWIC TORICOLOGY (SUNULRY)--Swerely solvent refined and severely hydrotreated mineral biss oils
have been tested at Mobil Environmental and Mealth Sciences
Laboratory by dermal application to rats 5 days/uses for 90 days at
deses significantly higher than those expected during nermal
industrial exposure. Extensive evaluations including microscopic
essaination of internal organs and clinical chemistry of body
fluids, showed no adverse effects.
----Cyronic Toricology (Survey)--The base site in this architet are severally solvent refined and/or

The base oils in this product are severely solvent refined and/or severely hydracreated. Chronic douse skin painting studies of similar oils showed no evidence of carcinogenic effects.

| *************** VI. FIRE AND EXPLOSION HAZARD DATA                                                                     |
|------------------------------------------------------------------------------------------------------------------------|
| FLISH POINT F(C): > 400(204) (ASTR 0-92)                                                                               |
| PLANUSLE LINITS. LEL: .6 UEL: 7.0                                                                                      |
| EXTINGUISHING MEDIA: Carbon disside, feam, dry chemical and water feg.                                                 |
| SPECIAL FIRE FIGHTING PROCEDURES: Water or feam may cause frothing.                                                    |
| Use water to keep fire expensed containers cool. Mater spray may be                                                    |
| used to flush spills away from exposure. For fires in enclosed                                                         |
| areas, firefighters must use self-contained breathing apparatus.                                                       |
| Prevent runelf from fire control or dilution from entering atteams                                                     |
| or drinking water supply.                                                                                              |
| UNUSUAL FIRE AND EXPLOSION MAZAROS: None.                                                                              |
| NFPA MIZARD ID: Mealth: 0, Flammability: 1, Reactivity: 0                                                              |
| ******************* TII. REACTIVITY DATA **********************************                                            |
| STABILITY (Thermal, Light, etc.): Stable                                                                               |
| CONDITIONS TO AVOID: Strang exidation                                                                                  |
| INCOMPATIBILITY (Materials to Aveid): Strong emiditors                                                                 |
| MAZARDOUS DECOMPOSITION PRODUCTS: Carbon meneride.                                                                     |
| MAZIADOUS POLYMERITATION: Will not occur.                                                                              |
|                                                                                                                        |
| **************** VIII. SPILL OR LEAK PROCEDURE ************************************                                    |
| ENVIRONMENTAL IMPACT: Report spills as required to appropriate                                                         |
| authorities. U. S. Coast Guard regulations require immediate                                                           |
| or sailts that sould reach any waterway including                                                                      |
| intermittent dry creeks. Report spill to Coast Guard toll free                                                         |
| number (800) 424-8802.                                                                                                 |
| processor to mitter to betteren on spilled: Advert on fire retardant                                                   |
| the transfer distanceous earth, etc. Shevel up and dispuse of                                                          |
| at an appropriate waste disposal facility in accordance with                                                           |
| current applicable laws and regulations, and product                                                                   |
|                                                                                                                        |
| users waverrest. Product is suitable for burning is an enclosed.                                                       |
| controlled burner for fuel value or disposal by supervised                                                             |
| instance in Such burning may be limited pursuant to the resource                                                       |
| to addition, the product is                                                                                            |
| table for necessing by an approved recycling facility of can be                                                        |
| at any and an new severement searched waste disposal facility.                                                         |
| us. of shore merhade is subject to user compliance With applicable                                                     |
| laws and regulations and consideration of product characteristics                                                      |
| at time of disposal.                                                                                                   |
| **************************************                                                                                 |
| IA. SYSCIAL PROTECTION INCOMENTO                                                                                       |
| ETE PROTECTION: No special equipment required.  SXIN PROTECTION: No special equipment required. However, good personal |
| hygiene practices should always be followed.                                                                           |
| RESPIRATORY PROTECTION: No special requirements under ordinary                                                         |
| conditions of use and with adequate ventilation.                                                                       |
| VENTILATION: No special requirements under ordinary conditions of use                                                  |
| and with adequate ventilation.                                                                                         |
|                                                                                                                        |
| ************* A. SPECIAL PRECAUTIONS                                                                                   |
| No special precautions required,                                                                                       |
|                                                                                                                        |

#### Mobil

HOSTL VACUUM PUMP OIL

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ALL. REGULATORY INFORMATION COVERNMENTAL INVENTORY STATUS: All components registered in accordance

Snipping Name: Not applicable Hazard Class: Not applicable

US OSMA MAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSMA 29 CFR 1910-1200 and determined not to be hazardous.

RCRA IMPORMATION: The unused product, in our opinion, is not apocifically listed by the EPA as a hazardous waste (40 CFR, Part 261D); does not exhibit the hazardous characteristics of ignitiability, corrasivity, or reactivity, and is not farmisted with the contaminants listed in the Toxicity Characteristic (TC) hule as determined by the Toxicity Characteristic teaching Procedure (TCLP). However, used product may be regulated. Procedure (ICLP). However, used product may be regulated.

THIS PRODUCT HAS BEEN COOK APPROVED UNDER THE FOLLOWING CATEGORY: M2 -Lubricants With No Food Contact

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY RAZARDOUS SUBSTANCES".

SARA (302) REPORTABLE MAZARO CATEGORIES: None

This product contains no chemicals reportable under SARA (313) texic release program,

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL MANE

CAS HUMBER LIST CITATIONS

--- KET TO LIST CITATIONS ---1 - OSHA Z, 2 - ACGIN. 3 - IARC. 4 - NTP. 5 - NCI.
6 - EPA CARC. 7 - MFPA 49. 8 - MFPA 32SN. 9 - DOT HNI. 10 - CA RTK.
11 - IL RTK. 12 - NA RTK. 13 - NY RTK. 14 - NJ RTK. 15 - NI 293.
16 - FL RTK. 17 - PA RTK. 18 - CA P65.

NTP. IARC. AND OSHA INCLUDE CARCINOCENIC LISTINGS ---

NOTE: NOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN POSS.

INGREDIENT DESCRIPTION PERCENT CAS NUMBER

CONTAINS ONE OF THE FOLLOWING BASE DILS: > 95.00

DISTILLATES (PETROLEUM), SOLVENT
DENALED HEAVY PARAFFINIC

DISTILLATES (PETROLEUM), SOLVENT
REFINED HEAVY PARAFFINIC

ALFINED HEAVY PARAFFINIC

#### Mobil

MOBIL VACUUM PUMP OIL

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FOR MOBIL USE ONLY: (FILL MO: NTL377001) MCN: , NMC: 0° 0° RA 0° 0°, NPFEC: A, FFEC: A, US89-312 APPROVE 11/27/90

INFORTATION GIVEN RESETN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PASTICULAR USES ARE RETOND OUR CONTROCT ALL RISKS OF USE OF THE FRODUCT ARE TREREFORE ASSUMED BY THE USER AND ME EXPRESSIT DISCLAIM ALL MARRANTIES OF EVERY KIND AND MATURE. INCLUDING MARRANTIES OF PASTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECONSIDERING FOR CSES WHICH INFRINCE VALID PAIRNTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE HEAVINGS AND SAFE MANDLING PROCEDURES SHOULD SE PROVIDED TO RANDLESS AND USERS.

PRIFARED ST: MOBIL DIL CORPORATION

ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT, PRINCETON, MJ

FOR PURTREE INFORMATION, CONTACT:

MOBIL DIL CORPORATION, PRODUCT FORMULATION AND QUALITY CONTROL

3225 GALLOWS ROAD, FAIRFAR, VA 22037 (800) 227-0707 X3265

Tmc-1015287

START INTERNATIONAL 3361 Boyington, Suite 120 Carrollton, Texas 75006 (214 960-1986) Product: PC-101 Protective Coating Code: PC-101; Key: PC-101

Synthetic Resin

# MATERIAL SAFETY DATA SHEET

#### Product Identification

Trade Name:

PC-101 Protective Coating

Chemical Family: Synthetic Resin

Date Prepared: October 30, 1993

Dot Class:

Flammable Liquid (Xylene and

Toluene), Liquid, NA1993

| Pan American Res<br>Hazard Rating |   | Scale                           |
|-----------------------------------|---|---------------------------------|
| Toxicity                          | 2 | 4 - Extreme                     |
| Fire                              | 3 | 3 - High                        |
| Reactivity                        | 0 | 2 - Moderate                    |
| Special                           | - | 1 - Slight<br>0 - Insignificant |

#### Component Information

This information must be included in all material safety data sheets that are copied and distributed for this product.

| Component Number | Chemical Name      | % By Weight | CAS REG NO.   |
|------------------|--------------------|-------------|---------------|
| 1                | Acrylic copolymer  | 35-38       | Not Hazardous |
| 2                | Butyl methacrylate | 1 max       | 97-88-1       |
| 3                | *Toluene           | < 20        | 108-88-3      |
| 4                | *Xylene            | < 43        | 1330-20-7     |

<sup>\*</sup> This chemical is subject to S.A.R.A. Title III Section 313 and 40 CFR372 reporting.

## **EMERGENCY RESPONSE INFORMATION**

#### First Aid Procedures

INHALATION

Move subject to fresh air. Give artificial respiration if breathing has

stopped. Call a physician.

INGESTION

If swallowed, give 2 glasses of water to drink. Consult a physician. Never

give anything by mouth to an unconscious person. Do not induce

vomiting.

EYE AND SKIN CONTACT

IMMEDIATELY flush eyes with a large amount of water for at least 15 minutes. See a physician. Wash affected skin areas thoroughly with

soap and water. Remove and wash contaminated clothing thoroughly.

NOTE TO PHYSICIAN

Acute massive exposure to toluene can cause transient hematuria and

albumnuria. Cardiac dysrhythmias can occur after massive inhalation.

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3361 Boyington, Suite 120

Carrollton, Texas 75006 (214 960-1986)

Product: PC-101 Protective Coating Code: PC-101; Key: PC-101

Synthetic Resin

#### Fire Fighting Information

UNUSUAL HAZARDS

Vapors can travel to a source of ignition and flash back.

**EXTINGUISHING AGENTS** 

Use the following extinguishing media when fighting fires involving this material: (1) polar solvent (alcohol foam), (2) carbon dioxide, (3) water spray, or (4) dry chemical.

PERSONAL PROTECTIVE EQUIPMENT

Wear self-contained breathing apparatus (pressure-demand

MSHA/NIOSH approved or equivalent) and full protective gear.

SPECIAL PROCEDURES

Use water spray to cool containers exposed to fire.

#### Spill or Leak Handling Information

PERSONAL PROTECTION

Appropriate protective equipment must be worn when handling a spill of this material. See the PERSONAL PROTECTION MEASURES section for recommendations. If exposed to material during clean-up operations, see the FIRST AID PROCEDURES section for actions to follow.

**PROCEDURES** 

Eliminate all ignition sources. Evacuate the spill area. Floor may be slippery; use care to avoid falling. Contain spills immediately with inenmaterials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Keep dust to a minimum. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water. NOTE: Spills on porous surfaces can contaminate ground water.

## HAZARD INFORMATION

#### Health Effects From Overexposure

PRIMARY ROUTES OF EXPOSURE

Inhalation, Skin Contact, and Eye Contact

INHALATION

Inhalation of solvent vapor or mist can cause the following: (1) irritations of nose, throat, and lungs, (2) drowsiness, (3) slurred speech, (4) headache, (5) nausea, (6) dizziness, (7) stupor, and/or (8) unconsciousness.

EYE CONTACT

Material can cause the following: (1) substantial irritation and/or (2)

corneal clouding.

SKIN CONTACT

Material can cause the following: (1) moderate skin irritation and/or (2) defatting and drying of the skin which can lead to irritation and dermatitis.

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Synthetic Resin

#### Health Effects From Overexposure - Continued

DELAYED EFFECTS

Prolonged or repeated overexposure to toluene/xylene can cause the following: (1) irritation of the respiratory tract, (2) enlarged liver, (3) kidney effects, (4) cardiac sensitization, and/or (5) severe skin irritation.

#### Fire And Explosive Properties

FLASH POINT

7°C / 45°F Pensky Martens Closed Cup

LOWER EXPLOSIVE LIMIT

1.2% Estimate

UPPER EXPLOSIVE LIMIT

7.1% Estimate

#### Reactivity Information

INSTABILITY

This material is considered stable.

HAZARDOUS DECOMPOSITION PRODUCTS There are no known hazardous decomposition products for this material.

HAZARDOUS POLYMERIZATION

Product will not undergo polymerization.

INCOMPATIBILITY

Avoid contact with strong oxidizing agents.

## ACCIDENT PREVENTION INFORMATION

#### Component Exposure Information

This product contains the following chemicals. This information must be included in all material safety data sheets that are copied and distributed for this product.

| Component Number | Chemical Name      | % By Weight | CAS REG NO.   |  |
|------------------|--------------------|-------------|---------------|--|
| 1                | Acrylic copolymer  | 35-38       | Not Hazardous |  |
| 2                | Butyl methacrylate | 1 max       | 97-88-1       |  |
| 3                | *Toluene           | < 20        | 108-88-3      |  |
| 4                | *Xylene            | < 43        | 1330-20-7     |  |

<sup>\*</sup> This chemical is subject to S.A.R.A. Title III Section 313 and 40 CFR372 reporting.

Product: PC-101 Protective Coating Code: PC-101; Key: PC-101

## Synthetic Resin

#### **Exposure Limit Information**

| Comp   | onent | os   | НА   | AC   | GIН  |
|--------|-------|------|------|------|------|
| Number | Units | TWA  | STEL | TWA  | STEL |
| 1      |       | None | None | None | None |
| 2      | ppm   | None | None | None | None |
| 3      | ррт   | 100  | 150  | 100  | 150  |
| 4      | ρρm   | 100  | 150  | 100  | 150  |

#### **Personal Protection Measures**

RESPIRATORY PROTECTION

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the TWA/TLV's listed in the COMPONENT EXPOSURE INFORMATION section.

Up to 10 times the TWA/TLV: MSHA/NIOSH approved (or equivalent) half-mask, air-purilying respirator.

Up to 100 times the TWA/TLV: MSHA/NIOSH approved (or equivalent) full-face piece, air-purilying respirator.

Above 100 times or Unknown: MSHA/NIOSH approved (or equivalent) self-contained breathing apparatus in the positive pressure mode, OR MSHA/NIOSH approved (or equivalent) full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

Air-purifying respirators should be equipped with organic vapor cartridges.

EYE PROTECTION

Use chemical splash goggles (ANSI Z87.1 or approved equivalent).

HAND PROTECTION

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection: Nitrile. Gloves should be removed and replaced immediately it there is any indication of degradation or chemical breakthrough.

OTHER PROTECTION

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

START INTERNATIONAL 3361 Boyington, Suite 120 Carrollton, Texas 75006 (214 960-1986) Product: PC-101 Protective Coating Code: PC-101; Key: PC-101

Synthetic Resin

### **Facility Control Measures**

VENTILATION Use explosion proof local exhaust ventilation with a minimum capture

velocity of 100 ft/min (10 m/min) at the point of vapor evolution. Refer to the current edition of *Industrial Ventilation: A Manual of Recommended Practice* published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and

maintenance of exhaust systems.

OTHER PROTECTIVE EQUIPMENT Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower.

#### Storage And Handling Information

STORAGE CONDITIONS Material can burn; limit indoor storage to approved areas equipped with

automatic sprinklers. Store away from excessive heat (e.g. steam pipes, radiators), from sources of ignition and from reactive materials. Low temperature storage can cause handling problems. Viscosity of material

will increase.

HANDLING PROCEDURES Ground all containers when transferring material.

OTHER CONTAINERS HAZARDOUS WHEN EMPTY. Since emptied containers

retain product residue (vapors and/or liquid) follow all MSDS and label warnings even after container is emptied. Residual vapors in empty containers may explode on ignition. DO NOT cut, drill, grind or weld on

or near container.

## SUPPLEMENTAL INFORMATION

#### Typical Physical Properties

APPEARANCE Clear
COLOR Amber
STATE Liquid

ODOR CHARACTERISTICS Aromatic Hydrocarbon

VISCOSITY @ 75' 160 cps
SPECIFIC GRAVITY (WATER = 1) 0.95

VAPOR DENSITY (AIR = 1) > 1

VAPOR PRESSURE 22 mm Hg @20°C/68°F Estimated

MELTING POINT -95°C/-139°F Initial
BOILING POINT 110°C/230°F Initial
SOLUBILITY IN WATER Practically insoluble

PERCENT VOLATILITY 62-66%

EVAPORATION RATE (BAC = 1) > 1

#### START INTERNATIONAL

3361 Boyington, Suite 120

Carrollton, Texas 75006 (214 960-1986)

Product: PC-101 Protective Coating

Code: PC-101; Key: PC-101

Synthetic Resin

#### **Toxicity Information**

**ACUTE DATA** 

The information shown in the HEALTH EFFECTS FROM OVEREXPOSURE section is based on toxicity profiles of similar

materials or on the solvents present in this material.

Oral LD50 (rat):

5000 mg/kg

Dermal LD50 (rabbit): Inhalation LCLo (rat):

12124 mg/kg 4000 ppm for 4 hrs

Skin Irritation (rabbit):

moderate irritation

Eye Irritation (rabbit):

severe irritation

REPRODUCTIVE/TERATOLOGY DATA

Toluene has been demonstrated to be embryofetotoxic and teratogenic

in laboratory animals.

#### **Waste Disposal**

Procedure

Dispose of this material at a facility that complies with local, state, and

federal regulations.

## REGULATORY INFORMATION

#### Workplace Classifications

This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200) and is a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

#### **Transportation**

**US DOT Hazard Class** 

FLAMMABLE LIQUID

The above information applies to the U.S. DOT classification of this material (49CFR 172.101). Various exemptions and/or restrictions may apply.

#### **Emergency Planning & Community Right-To-Know (SARA Title 3)**

SECTION 311/312 CATEGORIZATIONS (40CFR 370) This product is a hazardous chemical under 29CFR 1910.1200,

and is categorized as an immediate and delayed health, and flammability

physical hazard.

SECTION 313 INFORMATION (40CFR 372) This product contains chemicals which are listed in Section 313 above

de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS) Toluene (108-88-3),

Xylene (1330-20-7).

## START INTERNATIONAL

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Carrollton, Texas 75006 (214 960-1986)

Product: PC-101 Protective Coating Code: PC-101; Key: PC-101

Synthetic Resin

#### Cercla Information (40CFR 302.4)

This material has a component or components with a reportable quantity under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superlund Amendments and Re authorization Act (SARA) Title III section 304. The components, CAS numbers, and reportable quantities are listed below. Spills of a component in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations: Toluene (108-88-3) 1000lbs, Xylene (1330-20-7) 1000lbs.

#### **RCRA** Information

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste with the characteristic of ignitability, hazardous waste number: D0001.

#### **Chemical Control Law Status**

All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

PC-101® is a trademark of Pan American Research & Development Corp or one of its subsidiaries or affiliates.

#### **Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety and Health Administration

TLV Threshold Limit Value
PEL Permissible Exposure Limit
TWA Time Weighted Average
STEL Short Term Exposure Limit

BAC Butyl acetate

The information contained herein relates only to the specific material identified. Start International believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Start International urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.



R:101

P. 02/20

Rec. 9/4/01

CABLE ADDRESS



## SATO SPECIAL OIL CO., LTD.

1-4-17, IMAPUFUHIGASHI, JOTOKU, OSAKA, 536-0002, JAPAN TELEPHONE 06 6932-2451

# Manufacturer's TSCA Certificate

#### CERTIFICATE

Name of Product: PANASERT MP GREASE

Model Number:

N990PANA-022

We hereby certify that all chemical substances found in the listed products compiles with all aplicable rules and orders found under TSCA (Toxic Substancies Control Act). It consists of the following chemical substances, which are included in the TSCA inventory.

| Ingredient(s) Chemical Names                          | Common Name      | CAS No.    |
|-------------------------------------------------------|------------------|------------|
| alpha olefin                                          | Olefin oil       | 68037-01-4 |
| lithium 12-hydroxystearate                            | Lithium soap     | 7620-77-1  |
| 2, 2'-methylenebis (4-methyl-)<br>-6-tert-butylphenol |                  | 119-47-1   |
| sulfonic acids, petroleum, barium<br>salts            | barium sulfonate | 61790-48-5 |
| pentaerithrytol fattyacid ester                       | Ester oil        | 11138-60-6 |
| zinc alkyldithiophosphate                             | ZnDTP            | 14324-55-1 |

Date: 1998. 12. 14

Name: Kotomasa Ichisaka

Signiture: K. lohiaka

Title: Manager

- 1 -

P. 10/20

# Material Safety Data Sheet

Section 1

| Product Name or Number (As it appears on label) PANASERT MP GREASE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Manufacturer's Name:<br>Sato Special Oil Co., Ltd.                 | Emergency Phone No<br>08-932-2451 (Osaka, Japan)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |
| Manufacturer's Address:<br>4-17, 1-chome, Imafuku-                 | -higashi, Jotoku, Osaka, Japan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |
| Hazardous Material Description, Proper S<br>None                   | Shipping Name, Hazard Classes, ID No:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |
| Additional Hazard Classes: None                                    | Marie - S. C. (1995), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), C. (1996), |  |  |  |  |
| Chemical Family: Hydrocarbon-based Grea                            | se Formula: Mixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |

#### Section | | - Ingredients (List all ingredients)

| CAS No.    | WtX                                               | Listed as a Carcinogen<br>in NTP, LARC, or OSHA<br>1910(z)(specify) | ļ                                                                                                                                                 |
|------------|---------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 68037-01-4 | 72. 7                                             | None                                                                |                                                                                                                                                   |
| 7620-77-1  | 6. 0                                              | None                                                                | ł                                                                                                                                                 |
| 119-47-1   | 0. 3                                              | None                                                                | ٠                                                                                                                                                 |
| 61790-48-5 | 0. 5                                              | None                                                                | •                                                                                                                                                 |
| 11138-60-6 | 20. 0 ·                                           | None                                                                |                                                                                                                                                   |
| 14324-55-1 | 0. 5 i                                            | None                                                                |                                                                                                                                                   |
|            | 68037-01-4<br>7620-77-1<br>119-47-1<br>61790-48-5 | 68037-01-4 72.7<br>7620-77-1 6.0<br>119-47-1 0.3<br>61790-48-5 0.5  | in NTP, IARC, or OSHA 1910(z) (specify)  68037-01-4  72. 7 None  7620-77-1  6. 0 None  119-47-1  0. 3 None  119-47-1  None  1138-60-6  20. 0 None |

- 2 -

## Section III - Physical Data

| Boiling P              |                    |        | Specific Gravity<br>(Water = 1)  | = |       | Vapor Pressur<br>(625°C)                            | e: Neg    |
|------------------------|--------------------|--------|----------------------------------|---|-------|-----------------------------------------------------|-----------|
| Percent V<br>by Volume | olatile =<br>(%) . | N. A.  | Percent Solid(s)<br>by Weight(%) | = | <15   | Vapor Density<br>(Air =. 1)                         | =   N. A. |
| Evaporatio<br>(        | on Rate = = 1)     | N. A.  | Solubility<br>in Water           | = | <0. 1 |                                                     |           |
| Appearance             | and Odor           | : Grea | se, white<br>.Very little ode    |   |       | terial: <del>Li</del> on<br>le) <del>Cas</del> Past |           |

#### Section IV - Fire and Explosion Hazard Data

| Flash Point      | Method Used:         | Flammable Limits:     | LEL     | UEL   |      |
|------------------|----------------------|-----------------------|---------|-------|------|
| Obase oil >220°C | (C. O. C)            |                       | N. A.   | N. A. |      |
| Extinguishing    | Media: Foam , dry ch | nemical, carbon dioxi | de.     |       |      |
| Special Fire F   | ighting Procedures:  | Not Required.         |         |       | · —1 |
| Unusual Fire a   | nd Explosion Hazards | : Not Required.       | • • • • |       |      |

#### Section V - Health Hazard Data

| Effects of Over Exposure:Conditions to avoid  Skin Contact: No significant effect.  Eye Contact: May cause slight irritation. | Value                  | N. A.    |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|
|                                                                                                                               | Other Limit            | N. A.    |
| Primary Inhalation Routes of Entry Skin Contact (Specify                                                                      | Other:                 | <u> </u> |
| Emergency and First Aid Procedures: Skin: Remove paste from skin with dry clot area with soap.                                | h or towel and wash ex | posed    |
| Eye: Rinse with plenty of water. In seriou                                                                                    | s cases seek medical a | dvice.   |

- 3 -

| S                                 | ection \                        | /   -            | Reactivity Da                        | ia .                                    | ,                 |
|-----------------------------------|---------------------------------|------------------|--------------------------------------|-----------------------------------------|-------------------|
|                                   | Unstable                        | C                | onditions to Avi                     | d:                                      |                   |
| Stability                         | Stable                          | ×                |                                      |                                         |                   |
| Incompatibili                     | ty (Materials to                | avoid)           | : None                               |                                         |                   |
| Hazardous Deco                    | amposition Produ                | icts: No         | one                                  |                                         |                   |
|                                   | 1                               |                  | Conditions to                        | avoid: None                             | and the same      |
| Polymerization                    | Will Not Oc                     | , ,              |                                      | ••••••••••••••••••••••••••••••••••••••• | - M. de managemen |
| s                                 | ection V                        | 111              | - Spill or lea                       | ık Procedures                           |                   |
| •                                 | the spill or lea                |                  | is released or s<br>ap up with cardi | ="                                      | and place in      |
| Waste Disposea<br>Can be bo       | I Method:<br>urned in accorda   | ince wi          | th regulation.                       | to throme attended a file               |                   |
| Reportable<br>Quantites (in It    | 1                               | SARA             | N. A. Other                          | N. A. Spec                              | ify               |
| RCRA Hazardous                    | Naste Number(s)                 | :                |                                      |                                         |                   |
| Vola                              | tile Organic Co                 | mpounds          | (VOC) (as packag                     | ed minus wate                           | er).              |
| Theoretical(I                     | bs/Gsl) N. A.                   | Ana              | lytical(lbs/Gal                      | N. A.                                   |                   |
| Secti                             | ion VIII                        | - s              | epecial Protect                      | ion Informati                           | on                |
| Respiratory Pro<br>(Specify type) | tection: Not Rec                | qvired.          | :                                    |                                         |                   |
| rentilation                       | Local Exhaust(                  | Specify<br>Requi |                                      | Special                                 | N. A.             |
| equirements                       | Mechanical (Gene                |                  | pecial Rate)                         | Other                                   | N. A.             |
| rotective Glove<br>Specify Type)  | es: Plastic film<br>Rubber glov |                  | Eye Protect<br>(Specify Ty           |                                         | Glasses           |
|                                   | Contomonts Eva                  | wash ee          | uioment                              |                                         | MOR               |

R:101 P. 13/20

- 4 -

Section IX - Special Precautions

| Don't lay the container on its . Avoid contact with eyes and pro | side.<br>olonged or repeated skin contact. |
|------------------------------------------------------------------|--------------------------------------------|
| iease return Completed form to:                                  | Name (print): Kotomasa lchisaka            |
|                                                                  | Signiture:                                 |
|                                                                  | Employed by Sato Special Oil Co., Ltd.     |
|                                                                  | Title: Chief Staff of Laboratory Div       |
|                                                                  | Date: 1997. 5. 9                           |
| Supplemental Information                                         | on                                         |
|                                                                  |                                            |



## HISSAN TRADING CO.,LTD

14<sup>th</sup> Floor, B Wing Shuwa Shiba-Park Bldg. 4-1. Shiba-Koen, 2-Chome, Minatoku, Tokyo, 105 Japan TEL: 81-3-5405-6105 FAX: 81-3-5405-6106

# Manufacturer's TSCA Certificate CERTIFICATE

Name of Product: PANASERT TOUCH LUBE

Model Number : N990PANA-021

We hereby certify that all chemical substances found in the listed product companies with all applicable rules and orders found under TSCA(Toxic Substance Control Act). It consists of the following chemical substances, which are included in the TSCA inventory.

| Ingredient(s) Chemical Name                             | Common Name                 | CAS Number             |
|---------------------------------------------------------|-----------------------------|------------------------|
| Distillates petroleum, solvent-refined heavy paraffinic | Highly refined minersl oils | 64741-88 <del>-4</del> |
| Residual oils petroleum, solvent-refined                | Highly refined miners! oils | 64742-01-4             |
| 2-Methyl Penetans                                       | iso-Hex <b>an</b> e         | 107-83-5               |
| Polytetrafluoroethylene plastics                        | Tellon                      | 9002-84-0              |
| sulfonic acids,petroleum,barium salts                   | barium sulfonate            | 61790-48-5             |

Date: 3 FEBRUARY 1999

Name : Hiromi Kuma

Signature: Him Kuma

Title : General Manager

## MATERIAL SAFETY DATA SHEET HISSAN TRADING CO., LTD.

Date Prepared: 28, February 1998

Date Revised : Page 1 of 6

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Panasert Touch Lube

Model Number: N990PANA-021

Manufactured By: HISSAN TRADING CO., LTD

14TH FLOOR, B WING SHUWA SHIBA-PARK BLDG.

4-1, SHIBA-KOEN, 2-CHOME,

MINATOKU, TOKYO, 105-0001 JAPAN

Tel: 81-3-5405-6105

Fax : 81-3-5405-6106

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENTS                                             | CAS≠       |             |  |  |
|---------------------------------------------------------|------------|-------------|--|--|
| Distillates, petroleum, solvent-refined beavy paraffunc | 64741-88-4 | <del></del> |  |  |
| Residual oils, petroleum, solvent-refined               | 64742-01-4 |             |  |  |
| 2-Methyl Pentane                                        | 107-83-5   |             |  |  |
| Polytetrafluoroethylene plastics                        | 9002-84-0  |             |  |  |
| Sulfonic acids, petroleum, barium salts                 | 61790-48-5 |             |  |  |

#### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Brown Liquid with white powder. Extremely flammable.

#### POTENTIAL HEALTH EFFECTS

Eye Effects: May cause slight eye and mucous membrane irritation.

Skin Effects: May cause slight skin irritation.

Ingestion Effects: No exposure expected under normal conditions. Inhalation Effects: Large amount of mist if inhaled, may cause

Irritation of nose and throat mucous membranes.

#### Page 2 of 6

Chronic Effects/Carcinogenicity: None of the components in this material is listed by IARC, ED or ACGIE as a carcinogen.

#### 4 FIRST AID MEASURES

Eye : Flush with large amount of water, lifting upper and lover lids

occasionaly, get medical attention.

Skin : Thoroughly wash exposed area with soap and water.

Ingestion : Get medical attention immediately.

Inhalation: If affected, remove individual to fresh air, keep person warm,

quiet and get medical attention.

#### 5. FIRE FIGHTING MEASURES

Flash Point : -20 t
Flammable Limits : No data

Autoignition Temperature : 280 T

Unusual Fire and Explosion Hazard : Highly flammable liquid. Can release

vapors that form flammable mixutures

with air.

Extinguishing Media : Powder, Foam, Carbon Dioxide, Sand

Fire Fighting : Fear self-contained breathing

apparatus and protective clothing to prevent contact with skin and eyes.

Reep container(s) exposed to fire cool

by spraying with water.

Hazardous Combustion Products : Carbon Monoxide, Carbon Dioxide.

(Continued on page 3)

Page 3 of 6

#### 6. ACCIDENTAL RELEASE MEASURES

Spill and Leakage Procedures: Eandle as a flammable liquid. Absorb on sand, clay, or other absorbent materials. Eliminate ignition sources. Dispose of in accordance with local, state and federal regulations governing combustible waste.

#### 7. HANDLING AND STORAGE

Eardling: Use only in well ventilated areas. Avoid prolonged inhalation of excessive vapor and contact with eyes.

Prevention of Fire and Explosion: Keep away from heat, spark, flames and other sources of ignition, Protect containers from direct sunlight and do not expose to temperatures exceeding 50C .

Storage: Keep out of reach of children. Keep in a dry, cool, and dark place

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| INGREDIENTS      | MAK-value        |  |  |  |
|------------------|------------------|--|--|--|
| Wineral Oil      | None established |  |  |  |
| 2-Methyl Pentenc | 200ppm           |  |  |  |
| Teflon           | None established |  |  |  |

Engineering Controls: Not required under normal conditions, Respiratory Protection: Use respirator if it is needed. Skin Protection: Not required under normal conditions. Eye Protection: Not required under normal conditions,

(Continued on page 4)

### Page 4 Of 6

#### 9. PEYSICAL AND CHENICAL PROPERTIES

Appearance: Brown liquid with white Teflon powder Odor: Odor of mixture of mineral oil and solvent

PH : No data

Yapor Pressure : No data Vapor Density: No data Evaporation Rate: No data Boiling Point : No data Specific Gravity: 0.85 Viscosity: 8. 3cst(40t)

Flash Point : -20%

#### 10 STABILITY AND REACTIVITY

Stability: stable

Incompatibility: Oxidizers

Eazardous Decomposition: Carbon monoxide and Carbon dioxide.

#### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: 22g/kg(rat)

Eye irritation : No data Skin irritation : No data

(Continued on page 5)

#### Page 5 of 6

Skin sensitizatio : No data
Inhalation : No data
Futagenicity : No data
Carcinogenicity : No data

#### 12. ECOLOGICAL INFORMATION

No data

#### 13. DISPOSAL CONSIDERRATIONS

Dispose in accordance with local, state and federal regulations governing combustible waste.

#### 14. TRANSPORT INFORMATION

UN No. : 1268

#### 15. REGULATORY INFORMATION

Varning symbol : F+

Risk-phrase: Extremely Flammable(R12)

Safety-phrase: Keep out of reach of children(S2)

Reep away from sources of ignition-No Smoking (S16)

Do not breathe gas/fumes/vapour/spray(\$23)
Use only in well ventilated areas(\$51)

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50%. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

(Continued on page 6)

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#### 16. OTHER INFORMATION

Prepared by Hissan Trading Co., Ltd.

14TH FLOOR, B VING SHUVA SHIBA-PARK BLDG.

4-1, SHIBA-ROEN, 2-Chome.

WINATOKU, Tokyo, 105 Japan

The above information is believed to be accurate and represents the best information currently available to Hissan Trading Co., Ltd. However, Hissan Trading Co., Ltd. makes no warranty with respect to such information, and Hissan Trading Co., Ltd. assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.



104334

Ref NO 073184

## Technical Data Sheet PERMABOND ESP308, ESP309, and ESP310

#### PERMABOND ESP-SINGLE PART TOUGHENED EPOXY ADHESIVE

Permabond ESP toughened epoxies form a new class of adhesives. They combine the structural strength of standard epoxies with unparalleled peel, impact and cleavage resistance. Often metal deformation or metal failigue results before the adhesive fails These epoxics also have excellent annesion to a wide range of other illaterials.

Permabond ESP are pre-mixed and thus require less handling than two-component epoxies. They require a heat cure in the range of 300-400°F. Cure inrough large volumes can early be effected, thus making it also suitable for porting applications.

| Physical Properties                      | ESP308                | ESP309       | E6P310      |
|------------------------------------------|-----------------------|--------------|-------------|
| Color                                    | silver grey           | cream        | silver grey |
| Filler type                              | motallic              | morganic     | metallic    |
| Specific gravity (g/cc)                  | 1.5                   | 1.6          | 1.5         |
| Viscosity at 25°C/77°F, cps              | 200,000               | 150,000      | 400,000     |
| Flow characteristics (at cure temp)      | free flow             | partial flow | וויט וועש   |
| Blieff file @: 25 C/// 1-                |                       | 10 weeks     |             |
| @ 5°C/40°F                               |                       | — 9 months — |             |
| Electrical and Thermal Proportice        | ESP308                | ESP309       | ESP310      |
| Thermal expansion coefficient, in/iri/*C |                       |              |             |
| below Tg                                 | 53.4 x 10 4           | 58.6 x 10-9  | 57.7 x 10-6 |
| above Tg                                 | 178 x 10-6            | 176 x 10−¢   | 173 x 10 5  |
| Glass transition temperature—Tg          | 118 <b>°</b> C        | 113°C        | 118°C       |
| Thermal conductivity. BTU/ft ft//hr/*F   | 0.41                  | 0.32         | 0.40        |
| Volume resistivity, onm-cm               | 1.5 x 10 <sup>4</sup> | 3 × 10°°     | 3.1 x 104   |
| Dielectric strength, Volts/mil           | · <u> </u>            | 1400         | _           |

| Curing Conditions                       | 150°C/ | 180 °C/ | 200°C/     |  |
|-----------------------------------------|--------|---------|------------|--|
|                                         | 300°F  | 355 °F  | 390°F      |  |
| Gel Time (seconds) Cure Time (minutes)* | 140    | 40      | <b>2</b> 0 |  |
|                                         | 45     | 17      | 12         |  |

<sup>\*</sup>These times are typical for components cured in an air circulating oven. If other methods of heating (i.e. Induction, Infra-Red, Hot Plate) are used then the cure time can be significantly reduced. If large components are involved then additional time may be required to allow for heating up.

#### Performance Characteristics—All Grades

Tensile Shear Strongth: (ASTM D-1002, Chemically treated substrates)

|     | Aluminum | Steel | SVSteel | Copper | Brass | Carbide | Ferrite | SMC<br>Plastic | , |
|-----|----------|-------|---------|--------|-------|---------|---------|----------------|---|
| MPa | 40       | 41    | 40      | 28     | 26    | 40      | 15*     | 12"            |   |
| psi | 5800     | 6000  | 5800    | 4000   | 3800  | 5800    | 2200*   | 1800*          | İ |

<sup>\*</sup>Denotes failure of the honded material not the adhesive joint.

ROW WARRANTY. The information given and the recommendations need tiered are passed on our research and are bettered to be accurate but Anguiarenty of their accurates of made. In every case, we do asked and are bettered to be accurate but Anguiarenty of their accurates of made. In every case, we do asked a complete their past lateral and asked to product its of acceptable of quality and is suitable for their particular numbers when a partition and our interest of acceptable of quality and is suitable for their particular numbers when a complete and acceptable of purposes. And their past of their particular numbers are constituted in the constitute of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of their past of th

Page 1 Date Printed 6/25/96 MSDS No: M00649

## **Material Safety Data Sheet**

Rec. 8/17/99

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Phenolphthalein Solution 0.1%

Catalog Number: 1897

Hach Company P.O.Box 389 Loveland, CO USA 80539 (970) 669-3050

MSDS Number: M00649
Chemical Name: Not applicable
CAS No.: Not applicable
Chemical Formula: Not applicable

Chemical Family: Not applicable Hazard: May cause irritation.

Date of MSDS Preparation:

Day: 04
Month: August
Year: 1995

Emergency Telephone Numbers: (Medical and Transportation) (303) 623-5716 24 Hour Service (515)232-2533 8am - 4pm CST

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### Other component

CAS No.: Not applicable

TSCA CAS Number: Not applicable

Percent Range: < 1.0

Percent Range Units: weight / weight

LD50: Not applicable LC50: Not applicable TLV: Not established PEL: Not established Hazard: Not applicable

#### Phenolphthalein

CAS No.: 77-09-8

TSCA CAS Number: 77-09-8

Percent Range: < 1.0

Percent Range Units: weight / weight

LD50: None reported LC50: None reported TLV: Not established PEL: Not established

Hazard: May cause irritation. May cause allergic reaction.

#### Propylene Glycol

CAS No.: 57-55-6

TSCA CAS Number: 57-55-6

Page 2 Date Printed 6/25/96 MSDS No: M00649

Percent Range: 90.0 - 100.0

Percent Range Units: weight / weight LD50: Oral rat LD50 = 20 g/kg

LC50: None reported TLV: Not established PEL: Not established Hazard: No effects anticipated.

#### 3. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Clear, colorless liquid

Odor: Mild hydrocarbon

HMIS:

Health: 1

Flammability: 1 Reactivity: 0

**Protective Equipment:** X - See protective equipment, Section 8.

NFPA:

Health: 0

Flammability: 1 Reactivity: 0

Symbol: Not applicable Potential Health Effects:

Eve Contact: Causes mild irritation Skin Contact: Causes mild irritation Skin Absorption: No effects anticipated Target Organs: Not applicable

Ingestion: Very large doses may cause: central nervous system depression kidney damage rapid pulse and

respirations convulsions

Target Organs: None reported Inhalation: No effects anticipated Target Organs: Not applicable

Medical Conditions Aggravated: None reported

Chronic Effects: None reported

Cancer / Reproductive Toxicity Information:

This product does NOT contain any OSHA listed carcinogens.

This product does NOT contain any IARC listed chemicals.

This product does NOT contain any NTP listed chemicals.

Additional Cancer / Reproductive Toxicity Information: None reported Toxicologically Synergistic Products: None reported

#### 4. FIRST AID

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Date Printed 6/25/96
MSDS No: M00649

Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.

Skin Contact (First Aid): Wash skin with plenty of water. Call physician if irritation develops.

Ingestion (First Aid): Give large quantities of water. Call physician immediately.

Inhalation: Remove to fresh air.

#### 5. FIRE FIGHTING MEASURES

Flammable Properties: Can burn in fire, releasing toxic vapors.

Flash Point: >100° C (>212° F)

Method: Open cup Flammability Limits:

Lower Explosion Limits: 2.6% Upper Explosion Limits: 12.6%

Autoignition Temperature: 371° C (700° F)

Hazardous Combustion Products: Toxic fumes of: carbon monoxide, carbon dioxide.

Fire / Explosion Hazards: May react violently with: oxidizers

Extinguishing Media: Carbon dioxide Alcohol foam. Dry chemical. Water.

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full

protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Spill Response Notice:

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance.

Containment Technique: Absorb spilled liquid with non-reactive sorbent material. Dike large spills to keep spilled material from entering sewage and drainage systems or bodies of water.

Clean-up Technique: Absorb spilled liquid with non-reactive sorbent material. Sweep up material. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.

Special Instructions (for accidental release): Not applicable

304 EHS RQ (40 CFR 355): Not applicable

D.O.T. Emergency Response Guide Number: None

#### 7. HANDLING / STORAGE

Handling: Avoid contact with eyes Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

Storage: Protect from: heat Keep away from: oxidizers

Flammability Class: Class IIIB

#### 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

Engineering Controls: Have an eyewash station nearby. Maintain general industrial hygiene practices when using this product.

Personal Protective Equipment:

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Eye Protection: safety glasses with top and side shields

Skin Protection: disposable latex gloves Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with: eyes Wash thoroughly after handling. Protect from: heat

Keep away from: oxidizers TLV: Not established PEL: Not established

#### 9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid

Physical State: Liquid

Molecular Weight: Not applicable

Odor: Mild hydrocarbon

pH: 6.1

Vapor Pressure: Not determined

Vapor Density (air = 1): Not determined

Boiling Point: 188° C (370° F)

Melting Point: Not determined

Specific Gravity (water = 1): 1.032

Evaporation Rate (water = 1): 0.01

Volatile Organic Compounds Content: Not determined-Partition Coefficient (n-octanol/water): Not applicable

Solubility:

Water: Soluble
Acid: Soluble

Other: Not determined

Metal Corrosivity:

Steel: Not determined

Aluminum: Not determined

#### 10. STABILITY / REACTIVITY

Chemical Stability: Stable when stored under proper conditions.

Conditions to Avoid: Extreme temperatures

Reactivity / Incompatibility: May react violently in contact with: oxidizers

Hazardous Decomposition: Heating to decomposition releases toxic fumes of carbon monoxide and carbon

dioxide.

Hazardous Polymerization: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

Product Toxicological Data:

LD50: None reported

LC50: None reported

Dermal Toxicity Data: Propylene Glycol: rabbit LD50 = 20.8 g/kg

Skin and Eye Irritation Data: Propylene Glycol: Skin human 500 mg/7D - MILD; Eye rabbit 500 mg/24H -

MILD

Mutation Data: Propylene Glycol: Cytogenetic analysis, DNA inhibition mouse - subcutaneous - 8000 mg/kg

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Reproductive Effects Data: Propylene Glycol: Intraperitoneal mouse TDLo = 100 gm/kg -fetoxicity, post implantation mortality

Ingredient Toxicological Data: Propylene Glycol: Oral rat LD50 = 20 g/kg

#### 12. ECOLOGICAL INFORMATION

Product Ecological Information: --

No ecological data available for this product.

Ingredient Ecological Information: --

No ecological data available for the ingredients of this product.

#### 13. DISPOSAL CONSIDERATIONS

EPA Waste ID Number: None

Special Instructions (Disposal): Not applicable

Empty Containers: Rinse three times with an appropriate solvent. Dispose of empty container as normal trash. NOTICE (Disposal): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

#### 14. TRANSPORT INFORMATION

D.O.T.:

D.O.T. Proper Shipping Name: Not Currently Regulated

DOT Hazard Class: NA DOT Subsidiary Risk: NA DOT ID Number: NA DOT Packing Group: NA

I.C.A.O.:

I.C.A.O. Proper Shipping Name: Not Currently Regulated

ICAO Hazard Class: NA ICAO Subsidiary Risk: NA ICAO ID Number: NA ICAO Packing Group: NA

I.M.O.:

I.M.O. Proper Shipping Name: Not Currently Regulated

I.M.O. Hazard Class: NA
I.M.O. Subsidiary Risk: NA
I.M.O. ID Number: NA
I.M.O. Packing Group: NA
Page Number: NA

Page Number: NA AMDT: NA

#### 15. REGULATORY INFORMATION

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Date Printed 6/25/96
MSDS No: M00649

#### U.S. Federal Regulations:

O.S.H.A.: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

#### E.P.A.:

S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): Immediate (Acute) Health Hazard S.A.R.A. Title III Section 313 (40 CFR 372): This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.

302 (EHS) TPQ (40 CFR 355): Not applicable 304 CERCLA RQ (40 CFR 302.4): Not applicable 304 EHS RQ (40 CFR 355): Not applicable Clean Water Act (40 CFR 116.4): Not applicable RCRA: Contains no RCRA regulated substances.

C.P.S.C.: Not applicable

#### State Regulations:

California Prop. 65: No Prop. 65 listed chemicals are present in this product.

Identification of Prop. 65 Ingredient(s): None

Trade Secret Registry: Not applicable

National Inventories:

U.S. Inventory Status: All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).

TSCA CAS Number: Not applicable

#### 16. OTHER INFORMATION

Intended Use: Indicator for pH

References: Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. In-house information. Technical Judgment.

#### Legend:

NA - Not Applicable w/w - weight/weight ND - Not Determined w/v - weight/volume NV - Not Available v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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World Headquarters Hach Company P.O.Box 389 Loveland, CO USA 80539 (970) 669-3050

TMC#1225921

Page 1 Date Printed 6/25/96 MSDS No: M00223

## **Material Safety Data Sheet**

Roc. 8/11/99

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Phenolphthalein Indicator Solution 5 g/l

Catalog Number: 162

Hach Company P.O.Box 389 Loveland, CO USA 80539 (970) 669-3050

(970) 669-3050

MSDS Number: M00223

Chemical Name: Not applicable

CAS No.: Not applicable
Chemical Formula: Not applicable
Chemical Family: Not applicable
Hazard: May cause irritation.
Date of MSDS Preparation:

Day: 05
Month: January
Year: 1994

Emergency Telephone Numbers: (Medical and Transportation) (303) 623-5716 24 Hour Service (515)232-2533 8am - 4pm CST

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### 2-(2-Ethoxyethoxy)ethanol

CAS No.: 111-90-0

ISCA CAS Number: 111-90-0

Percent Range: > 99.0

Percent Range Units: weight / weight LD50: Oral rat LD50 = 5500 mg/kg

LC50: None reported
TLV: Not established
PEL: Not established
Huzard: May cause irritation.

#### Phenolphthalein

CAS No.: 77-09-8

TSCA CAS Number: 77-09-8 Percent Range: 0.1 - 1.0

Percent Range Units: weight / volume

LD50: None reported LC50: None reported TLV: Not established PEL: Not established

Hazard: May cause irritation. May cause allergic reaction.

#### 3. HAZARDS IDENTIFICATION

Emergency Overview:

World Headquarters Hach Company P.O.Box 389 Loveland, CO USA 80539 (970) 669-3050 Page 2
Date Printed 6/25/96
MSDS No: M00223

Appearance: Colorless liquid

Odor: Bland

MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION

HMIS:

Health: 1

Flammability: 1

Reactivity: 0

Protective Equipment: X - Sec protective equipment, Section 8.

NFPA:

Heulth: 1

Flammability: 1

Reactivity: 0

Symbol: Not applicable

Potential Health Effects:

Eye Contact: Causes moderate irritation

Skin Contact: Causes mild irritation, Skin Absorption: None Reported

Target Organs: None Reported

Ingestion: May cause: drunkenness incoordination dizziness drowsiness headache nausea confusion

Target Organs: Central nervous system

Inhalation: May cause: respiratory tract irritation

Target Organs: None reported

Medical Conditions Aggravated: None reported

Chronic Effects: Nonc reported

Cancer / Reproductive Toxicity Information:

This product does NOT contain any OSHA listed carcinogens.

This product does NOT contain any IARC listed chemicals.

This product does NOT contain any NTP listed chemicals.

Additional Cancer / Reproductive Toxicity Information: None reported Toxicologically Synergistic Products: None reported

#### 4. FIRST AID

Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.

Skin Contact (First Aid): Wash skin with plenty of water. Call physician if irritation develops.

Ingestion (First Aid): Give large quantities of water. Call physician immediately,

Inhalation: Remove to fresh air.

#### 5. FIRE FIGHTING MEASURES

Flammable Properties: Can burn in fire, releasing toxic vapors.

Flash Point: 99°C; 210°F

Method: Closed cup

Flammability Limits:

Lower Explosion Limits: 1.2% @ 135°C, 275°F Upper Explosion Limits: 23.5% @ 182°C, 360°F World Headquarters Hach Company P.O.Box 389 Loveland, CO USA 80539

(970) 669-3050

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Date Printed 6/25/96
MSDS No: M00223

Autoignition Temperature: Not available

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Hazardous Combustion Products: Toxic fumes of: carbon monoxide, carbon dioxide.

Fire / Explosion Hazards: None reported

Extinguishing Media: Dry chemical, Carbon dioxide Alcohol foam.

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full

protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Spill Response Notice:

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Containment Technique: Releases of this material may contaminate the environment. Remove all combustible material from spill area. Remove all ignition and spark-creating sources from the spill area. Cover spilled liquid with a commercially available flammable liquid sorbent such as vapor barrier blanket or activated carbon to avoid evolution of fumes. Vapors may travel to a source of ignition and flash back. May be ignited by heat, sparks, or flames. Dike the material to create a barrier to combustibles.

Clean-up Technique: Eliminate all sources of ignition. Do not breathe the fumes. Cover with an inert material, such as sand. Use only non-sparking tools. Sweep up material. Incinerate material at an E.P.A. approved hazardous waste facility. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.

Special Instructions (for accidental release): Not applicable

304 EHS RQ (40 CFR 355): Not applicable

D.O.T. Emergency Response Guide Number: None

#### 7. HANDLING / STORAGE

Handling: Avoid contact with eyes skin clothing Do not breathe mist or vapors. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

Storage: Protect from: sparks, flames and other ignition sources

Flammability Class: Class IIIB

#### 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

Engineering Controls: Have an eyewash station nearby. Maintain general industrial hygiene practices when using this product.

Personal Protective Equipment:

Eye Protection: chemical splash goggles

Skin Protection: disposable latex gloves lab coat

Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with: eyes skin clothing Do not breathe: mist/vapor Wash

thoroughly after handling. Protect from: hear

TLV: Not established PEL: Not established

#### 9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: Colorless liquid Physical State: Liquid

10E 01.41 FAA 010 404 0140

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P.O.Box 589
Loveland, CO USA 80539
(970) 669-3050

Page 4 Date Printed 6/25/96 MSDS No: M00223

Molecular Weight: Not applicable

Odor: Bland pH: 4.5

Vapor Pressure: 0.08 mm Hg Vapor Density (air = 1): 4.63 Boiling Point: 196°C; 385°F Melting Point: -78°C; -108°F Specific Gravity (water = 1): 0.986

Evaporation Rate (water = 1): (Butyl acetate = 1) 0.013 | Volatile Organic Compounds Content; Not available Partition Coefficient (n-octanol/water): Not available Solubility:

Water: Miscible
Acid: Not determined

Other: Miscible in CH3COCH3, CoH6, CHCl3, C2H5OH

Metal Corrosivity:

Steel: Not determined

Aluminum: Not determined

#### 10. STABILITY / REACTIVITY

Chemical Stability: Stable when stored under proper conditions.

Conditions to Avoid: Contact with heat, sparks, open flames or other ignition sources. Moisture: substance is

hygroscopic.

Reactivity / Incompatibility: None reported Hazardous Decomposition: None reported Hazardous Polymerization: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

Product Toxicological Data:

LD50: None reported

LC50: None reported

Dermal Toxicity Data: None reported
Skin and Eye Irritation Data: None reported

Mutation Data: None reported

Reproductive Effects Data: None reported

Ingredient Tuxicological Data: 2-(2-Ethoxycthoxy) ethanol - Oral rat LD50 = 5500 mg/kg, Skin rabbit LD50 = 8500 mg/kg, Eye rabbit 500 mg - MODERATE

#### 12. ECOLOGICAL INFORMATION

Product Ecological Information: No information available for this product.

Ingredient Ecological Information: No ingredient information available for this product.

#### 13. DISPOSAL CONSIDERATIONS

World Headquarters Hach Company P.O.Box 389 Loveland, CO USA 80539 (970) 669-3050 Page 5
Date Printed 6/25/96
MSDS No: M00223

EPA Waste ID Number: Nonc

Special Instructions (Disposal): Incinerate material at an E.P.A. approved hazardous waste facility.

Empty Containers: Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.

NOTICE (Disposal): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

#### 14. TRANSPORT INFORMATION

D.O.T.:

D.O.T. Proper Shipping Name: Not Currently Regulated

DOT Hazard Class: NA DOT Subsidiary Risk: NA DOT ID Number: NA DOT Packing Group: NA

I.C.A.O.:

I.C.A.O. Proper Shipping Name: Not Currently Regulated

ICAO Hazard Class: NA ICAO Subsidiary Risk: NA ICAO ID Number: NA ICAO Packing Group: NA

I.M.O.:

I.M.O. Proper Shipping Name: Not Currently Regulated

I.M.O. Hazard Class: NA
I.M.O. Subsidiary Risk: NA
I.M.O. ID Number: NA
I.M.O. Packing Group: NA
Page Number: NA
AMDT: NA

#### 15. REGULATORY INFORMATION

U.S. Federal Regulations:

O.S.H.A.: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

E.P.A.:

S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): Immediate (Acute) Health Hazard S.A.R.A. Title III Section 313 (40 CFR 372): This product contains a chemical(s) subject to the reporting

requirements of Section 313 of Title III of SARA.

2-(2-Ethoxyethoxy)ethanol (Glycol Ether)

302 (EHS) TPQ (40 CFR 355): Not applicable

304 CERCLA RQ (40 CFR 302.4): Not applicable

304 EHS RQ (40 CFR 355): Not applicable

Clean Water Act (40 CFR 116.4): Not applicable

RCRA: Contains no RCRA regulated substances.

C.P.S.C.: Not applicable

State Regulations:

California Prop. 65: No Prop. 65 listed chemicals are present in this product.

Identification of Prop. 65 Ingredient(s): None

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ITach Company
P.O.Box 389

Loveland, CO USA 80539
(970) 669-3050

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Date Printed 6/25/96
MSDS No: M00223

Trade Secret Registry: Not applicable

National Inventories:

U.S. Inventory Status: All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).

ISCA CAS Number: Not applicable

#### 16. OTHER INFORMATION

Intended Use: Indicator for pH

References: 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. The Merck Index, 11th Ed. Rahway, New Jersey: Merck and Co., Inc., 1989. CCINFO RTECS. Canadian Centre for Occupational Health and Safety. Hamilton, Ontario Canada: 30 June 1993. Sax, N. Irving. Dangerous Properties of Industrial Materials, 7th Ed. New York: Van Nostrand Reinhold Co., 1989. Technical Judgment. Vendor Information.

#### Legend:

NA - Not Applicable

w/w - weight/weight

ND - Not Determined

w/v - weight/volume

NV - Not Available

v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

HACH COMPANY @1996

# ADHESIVE SYSTEMS INC.

## **Material Safety Data Sheet**

PRODUCT IDENTIFICATION

Product Name:

Item No.:

Product Type:

Poly Prep Primer

6 10 12 Primer/ Accelerator

FOR PRODUCT EMERGENCY CHEM-TEL INC. 1-800-255-3924

II. COMPOSITION

Ingredients

n-HEPTANE Substituted amidine CAS No.

142-82-5 6674-22-2

95-100  $0.1 - \bar{0}.5$ 

8

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure:
Vapor Density:
Solubility in Water:
Specific Gravity:
Boiling Point:
Volatile Organic Compound
(EPA Method 24)
Evaporation Rate
(Ether = 1)
pH:

:Éq

Appearance: odor:

35 mm at 68-F 3.45

Immiscible 0.68 205-210-F

99.9%; 680 grams/liter

Does not apply Clear liquid Aliphatic

FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point:

Flash Point:
Estimated NFPA Code:
Health Hazard:
Fire Hazard:
Reactivity Hazard:
Specific Hazard:
Estimated HMIS Code:
Health Hazard:
Flammability Hazard

Flammability Hazard: Reactivity Hazard: Personal Protection:

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper

Recommended

Extinguishing Agents: Carbon dioxide, foam, dry Hazardous Products Formed by Fire or Thermal Decomp Irritating organic vapors Unusual Fire or

Explosion Hazards: Compressed Gases:

Pressure at Room Temp.:

Does not apply

See Section X.

Carbon dioxide, foam, dry chemical

None None

Does not apply

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Method: Tag closed cup

V. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak:

Maintain good ventilation. The interpretation source soak up remainder in an inelle an order in a closed container until disposal.

Recommended methods of disposal:

Incinerate following EPA and local regulations.

VI. STORAGE AND HANDLING PROCEDURES

Storage:

Store below 120-F in a tightly closed container away from oxidizing materials and sources of ignition.

Hardling:

Keep away from flame. Avoid prolonged of vapors. Avoid skin or eye contact. Avoid prolonged breathin

#### VII. SHIPPING REGULATIONS

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:

Consumer Commodity (Not more than one liter); Heptanes solution (More than one liter)

Hazard Class or Division:

ORM-D (Not more than one liter); Class 3, Packing Group II (More than one liter) None (Not more than one liter); UN 1206 (More than one liter)

Identification Number:

Marine Pollutant:

IATA

Proper Shipping Name: Class or Division: UN or ID Number:

Heptane Solution Class 3, Packing Group II UN 1206

VIII. REACTIVITY DATA

Stable

Stability:
Bazardous Polymerization:
Bazardous Decomposition
Products (non-thermal):

Will not occur.

Incompatability:

Strong oxidizers.

IX. EMERGENCY TREATMENT PROCEDURES

Ingestion:

Inhalation:

Induce vomiting. Obtain medical attention. Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Eye Contact:

Wash with soap and water. Flush at least 15 minutes with water.

medical attention.

PERSONAL PROTECTION

Eyes:

Skin,

Safety glasses or goggles. Rubber or plastic gloves. Adequate to avoid exceeding TLV.

Ventilation:

XI. HEALTH HAZARD DATA

Toxicity:

Eye irritant. Anesthetic. Moderately toxic by ingestion. Residue after evaporation of solvent is destructive to tissue of the mucous membranes, and upper respiratory tract, eyes, and skin. Heptane: Inhalation, ingestion, contact.

Primary Routes of Entry:

Dizziness, anesthesia, unconsciousness.

Signs and Symptoms of Exposure:
Existing Conditions
Aggravated by Exposure:

None known

Exposure Limits (TWA)

ACGIH (TLV)

OSHA (PEL) OTHER

Ingredients

n-HEPTANE

400 ppm TWA 1640 mg/M3

500 ppm TWA 1600 mg/M3

None

Exposure Limits (STEL)

ACGIH

OSHA

(TLV) (PEL)

Ingredients n-HEPTANE

MOR 001138

500 ppm 2000 mg/M3 500 ppm 2050 mg/M3

Ingredients for which no Exposure Limits have been established are not listed above.

Ingredients

Literature Referenced Target Organ and Other Health Effects

NER n-HEPTANE Substituted amidine No Data Carcinogen NTP IARC OSHA NO NO

XI. HEALTH HAZARD DATA

Abbreviations

NER Nervous System

XII. PREPARATION INFORMATION

Kevin Smith

Prepared By: Title: Company: (24hr.) Phone: Revision Date:

Lab Tech.
Adhesive Systems, Inc. 1 800 552-0299
October 15th, 1993

MOR 001139

Revision: 001

| ্' <b>শ</b> তুCO∩<br>টু | IC® PRIMER N                                                                                                                                                                                                                   |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ν.                      | FLAMMABILITY AND EXPLOSIVE PROPERTIES                                                                                                                                                                                          |
|                         | Flash point None Method T.C.C.  Explosive Limits (% by volume in air) Lower dna % Upper dna % Recommended Extinguishing Agents CO2, Foam, Dry Chemical Hazardous Products Formed by Fire or Thermal Decomposition: Toxic chlor |
|                         | Unusual Fire or Explosion Hazards: None  Compressed Gasses Name None  Pressure at Room Temperature                                                                                                                             |
| VI.                     | REACTIVITY DATA                                                                                                                                                                                                                |
|                         | Stability [X] Stable [] Unstable Hazardous Polymerization [] May Occur [X] Will Not Occur Hazardous Decomposition Products (non-thermal) None                                                                                  |
|                         | Incompatibility May react violently with aluminum on prolonged contact.                                                                                                                                                        |
| VII.                    | SPILL OR LEAK AND DISPOSAL PROCEDURES                                                                                                                                                                                          |
|                         | Steps to be taken in case of spill or leak: Allow to evaporate with good ventilation. Soak up residue in inert absorbent.                                                                                                      |
| 6                       | Recommended methods of disposal: Follow EPA and local regulations for of chlorinated hydrocarbons.                                                                                                                             |
| VIII.                   | STORAGE AND HANDLING PROCEDURES                                                                                                                                                                                                |
|                         | Storage: Store below 110°F. Handling: Avoid prolonged breathing of vapor. Keep away from eyes.                                                                                                                                 |

IX. SHIPPING REGULATIONS

| Type or     | r Class DOI   | UKM-A        |                |                 |                  |
|-------------|---------------|--------------|----------------|-----------------|------------------|
| <b>4</b> (  | IATA          | CLASS 6.1 Po | oisonous Subst | ances .         |                  |
| Proper      | Shipping Name |              | -Trichloroetha |                 |                  |
|             |               | IATA poisor  | nous Liguid, n | .o.s. (Contains | 1,1,1-Trichloro- |
| repared By: | Martin Hauser | Alla         |                | •               | ethane)          |
| itle:       | Vice Presiden |              | ental Health a | nd Safety       |                  |
| +++         | November 1 19 | 285          |                |                 |                  |

JUL 05 1989
THE MOREY CORP.

| T.OCTTTE | CORPORATION |
|----------|-------------|
|          |             |

705 NORTH MOUNTAIN ROA.
NEWINGTON, CONNECTICUT U. 11
EMERGENCY PHONE: (203) 278-1280

ISSUED 5/13/93 12:16:49 TELEX: 275207

#### MATERIAL SAFETY DATA SHEET

Page .3 of

Product Name: em No.:

Locquic(R) Primer T 7471 19267

|           |           |      | <br>o CIII N |             |
|-----------|-----------|------|--------------|-------------|
| XI. HEAL? | TH HAZARD | DATA | <br>         | (continued) |

| Exposure Limits (TWA)<br>Ingredients | ACGIH<br>(TLV)                      | OSHA<br>(PEL)                                         | OTHER |
|--------------------------------------|-------------------------------------|-------------------------------------------------------|-------|
| ACETONE                              | 750 ppm TWA<br>1780 mg/m3           | 750 ppm TWA                                           | None  |
| ISOPROPYL ALCOHOL                    | 400 ppm TWA<br>983 mg/m3            | 750 ppm TWA<br>1800 mg/m3<br>400 ppm TWA<br>980 mg/m3 | None  |
| Exposure Limits (STEL) Ingredients   | ACGIH<br>(TLV)                      | OSHA<br>(PEL)                                         |       |
| ACETONE                              | 1000 ppm<br>2380 mg/m3              | 1000 ppm                                              |       |
| ISOPROPYL ALCOHOL                    | 2380 mg/m3<br>500 ppm<br>1230 mg/m3 | 1000 ppm<br>2400 mg/m3<br>500 ppm<br>1225 mg/m3       |       |

Ingredients for which no Exposure Limits have been established are not listed above.

Carcinogen NTP IARC OSHA Literature Referenced Ingredients Target Organ and Other Health Effects

IRR KID LIV MET NER GAS IRR NER REP ACETONE ИО NO NO ISOPROPYL ALCOHOL N,N-Dialkanol toluidine A\N ON NO NO NO NŌ 2-Mercaptobenzothiazole NO NO

Abbreviations

Not Applicable Irritant LIV Liver

NER Nervous System

GAS Gastrointestinal KID Kidney MET Metabolic REP Reproductive

#### PREPARATION INFORMATION

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist, Environmental Health & Safety
Loctite Corp., 705 N. Mt. Rd, Newington, CT 06111
(203) 278-1280
April 07, 1993 Revision: 0007

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THE MOREY CORP.



705 North Mountain Road Newington, Connecticut 06111 Telephone: (203) 278-1280 Telex: 99348

### MATERIAL SAFETY DATA SHEET

|      | •                                                                                                                                                                                     |                                    | MILKINE SHIELL BALL                                               | TOREL                    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------|--------------------------|
| ı.   | PRODUGT IDENTIFICATION                                                                                                                                                                |                                    |                                                                   | •                        |
|      | Product Name LOCQUIC® PRIMER N Product Type Primer                                                                                                                                    |                                    | t No. <u>704 55, 764-71</u><br>mula No.                           |                          |
| 11.  | COMPOSITION                                                                                                                                                                           |                                    |                                                                   |                          |
|      | Ingredients                                                                                                                                                                           | % by Wt.                           | Hazard                                                            | ₹                        |
|      | 1,1,1-Trichloroethane*<br>Organo-Copper Salt<br>Trialkylamine Carboxylate<br>Aliphatic carboxylic acid                                                                                | 98+<br><1<br><1<br><1              | TLV = 350 ppm, Toxic<br>Toxic<br>Irritant                         | :                        |
|      | *1,1,1-Trichloroethane (methyl caffects and kidney and liver dam inhalation. It is our best tech normal use of this product poses                                                     | nage in experim<br>nnical judgment | mental animals on prolonge<br>, that, with proper preca           | :d                       |
| III. | CHEMICAL AND PHYSICAL PROPERTIES                                                                                                                                                      |                                    |                                                                   |                          |
|      | Vapor Pressure 100 mm at 70°F Vapor Density ~4.5 Solubility in Water Nil Appearance Green Liquid                                                                                      | pH                                 | ific Gravity <u>1.32 at 70°</u> ing Point <u>~170°F</u> dna Sharp | F                        |
| IV.  | TOXICITY AND HEALTH HAZARD DATA                                                                                                                                                       |                                    | , 4                                                               |                          |
|      | Toxicity Possible eye irritant.  Est. Dermal LD 50 >2000 mg/kg  Symptoms of Overexposure Headach concentration.                                                                       | TLI                                | 350 ррт                                                           |                          |
|      | Emergency Treatment Procedures Ingestion: Do not induce vomiting Inhalation: Remove to fresh air. Skin Contact: Flush with water. Eye Contact: Flush thoroughly w Personal Protection | If symptoms vith water. O          | persist, obtain medical a                                         | l attention<br>ttention. |
|      | Eyes: Safety glasses or go<br>Skin: Rubber or plastic gl                                                                                                                              |                                    |                                                                   |                          |
|      | Ventilation: Provide adequate loc<br>below TLV.                                                                                                                                       | cal ventilation                    | to maintain vapor concer                                          | itration .               |

MOR 001142



LOCTITE CORPORATION

705 NORTH MOUNTAIN ROAD NEWINGTON, CONNECTICUT 06111 EMERGENCY PHONE: (203) 278-1280

ISSUED ISSUED 5/13/93 12:16:49 TELEX: 275207

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Page .1 of 3

#### MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Product Name: Item No.: Product Type: Formula No.:

Locquic(R) Primer T 7471 19267 Accelerator LID-1275

#### COMPOSITION

Odor:

CAS No. 2 Ingredients 67-64-1 67-63-0 3077-12-1 ACETONE\* 85-90 ISOPROPYL ALCOHOL N,N-Dialkanol toluidine 10-15 1 - 32-Mercaptobenzothiazole 149-30-4 1 - 3

\* This component is listed as a SARA Section 313 Toxic Chemical.

#### III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure:
Vapor Density:
Solubility in Water:
Specific Gravity:
Boiling Point:
Volatile Organic Compound (EPA Method 24) Evaporation Raté (Ether = 1)pH: Appearance:

Approximately 230 millibars at 68-F Not available Miscible 0.791 Not available 97.96%; 775 grams per liter Not available

Does not apply Clear, amber liquid Acetone

#### FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point: Approximately 17-F Estimated NFPA Code: Health Hazard: 2 3 Fire Hazard: Reactivity Hazard: Specific Hazard: Estimated HMIS Code: 0 Does not apply Health Hazard: Flammability Hazard: Reactivity Hazard: Personal Protection: O See Section X.

Explosive Limits: (% by volume in air)Lower

(% by volume in air)Upper

Recommended Extinguishing Agents: Carbon dioxide, foam, dry Hazardous Products Formed by Fire or Thermal Decomp Irritating organic vapors Unusual Fire or

Explosion Hazards: Compressed Gases: Pressure at Room Temp.:

None None

13%

Does not apply

2.6% Acetone 2.0% Isopropyl alcohol

Acetone 12.7% at 200-F Isopropyl alcohol

Carbon dioxide, foam, dry chemical RECEIVED

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THE MOREY CORP.

Tag Closed Cup

#### SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case of spill or leak:

Recommended methods rf disposal:

Avoid flame and sparks. Maintain adequate ventilation. Soak up in an inert absorbent and store in a closed container until disposal.

Method:

Incinerate following EPA and local regulations.

LOCTITE CORPORATION

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MATERIAL SAFETY DATA SHEET

ISSUED

Page .2 of

Product Name: tem No.:

Locquic(R) Primer T 7471 19267

STORAGE AND HANDLING PROCEDURES

Storage: Handling:

Store away from flame and sparks. 120-F to preserve shelf life. Store below Avoid prolonged breathing of fumes. or eye contact. Avoid skin

VII. SHIPPING REGULATIONS

DOT (49 CFR 172)

Proper Shipping Name

Ground: Consumer Commodity (Not more than one quart);

Acetone solution (More than one quart)
Air: Consumer Commodity (Not more than one quart);
Acetone solution (More than one quart)

Hazard Class or

Division

Ground: ORM-D (Not more than one quart);
Flammable liquid (More than one quart)
Air: ORM-D-Air (Not more than one quart);
Flammable liquid (More than one quart)
None (Not more than one quart);
UN 1090 (More than one quart)

Identification Number

Proper Shipping Name Class or Division UN or ID Number

Acetone solution Class 3, Packing Group II UN 1090

Substance Marine Pollutant Status

Subsidiary Risk Label IMDG Code Page UN Number

Not available Not available Not available

Not available Not available Not available

Will not occur.

RECEIVED

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REACTIVITY DATA \ III.

Stability: Hazardous Polymerization: Hazardous Decomposition Products (non-thermal): Incompatability:

Stable

Strong oxidizers, peroxides

IX. EMERGENCY TREATMENT PROCEDURES

Ingestion:

Do not induce vomiting. Keep individual calm. Obtain medical attention. Remove to fresh air. If symptoms persist, obtain

Inhalation:

Skin Contact: Eye Contact:

medical attention.
Wash with soap and water.
Flush with water for at least 15 minutes.

medical attention.

PERSONAL PROTECTION

Eyes: Skin:

Ventilation:

Safety glasses or goggles. Rubber or plastic gloves. Sufficient to maintain vapor concentration

below TLV.

XI. HEALTH HAZARD DATA

Toxicity:

Possible eye and respiratory irritant.
Narcotic at high concentrations.
Prolonged inhalation may cause headaches.
Moderately toxic by ingestion
Liquid may defat skin.

Primary Routes of Entry:
igns and Symptoms
f Exposure: Inhalation, ingestion, contact.

Vapors irritate eyes, nose and throat. Liquid is an eye irritant and may irritate skin.

Existing Conditions Aggravated by Exposure:

None known

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/L0C46040

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING

ROCKY HILL, CT 06067-3910

EMERGENCY PHONE: (860) 571-5100 FA

FAX: (860)-571-5465

ISSUED: 2/17/99

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Prism(R) 460 Low Odor/Bloom Inst Adh

Item No. : 46040

Product Type: Cyanoacrylate Ester

SECTION II - COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients CAS No.

Cyanoacrylate ester Proprietary 95 -100
Poly (methyl methacrylate) 9011-14-7 3 · 5
Cyanoacetate ester Proprietary 0.1 · 3
HYDROQUINONE 123-31-9 0.1 · 0.5

Ingredients which have exposure limits.

Exposure Limits (TWA) ACGIH OSHA OTHER

Ingredients (TLV) (PEL)

HYDROQUINONE 2 mg/m3 TWA 2 mg/m3 TWA 2 mg/m3 TWA 4 mg/m3 STEL

Exposure Limits (STEL) ACGIH OSHA Ingredients (TLV) (PEL)

SECTION III - HAZARDS IDENTIFICATION

Toxicity : Skin contact may cause burns. Bonds skin rapidly

and strongly. Skin and eye irritant.
Estimated oral LD50 more than 5000mg/kg.

Estimated dermal LD 50 more than 2000 mg/kg.

Estimated dermai LD 50 more than 2000 mg/kg

Primary Routes of Entry : None known

Signs and Symptoms

of Exposure : Vapor is irritating to eyes and mucous membranes

above TLV. Prolonged and repeated overexposure to vapors may produce allergic reactions with asthma-like symptoms in sensitive individuals.

NO

N/A

Existing Conditions Aggravated

by Exposure : None known

Literature Referenced Carcinogen Ingredients Target Organ and Other Health Effects NTP IARC OSHA

Cyanoacrylate ester ALG IRR NO NO Poly (methyl methacrylate) IRR NO N/A NO Cyanoacetate ester NTO NO NO NO HYDROQUINONE AC3 BLO BNM CNS EYE IMM

LIV THY IRR MUT SKI

.....

**Abbreviations** 

N/A Not Applicable AC3 ACGIH animal carcinogen

ALG Allergen BLO Blood

BNM Bone Marrow CNS Central nervous system

EYE Eyes IMM Immune system

Rec. 3/9/01

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#### /L0C46040

IRRIrritantMUTMutagenSKISkinLIVLiverTHYThyroidNTONo target organs

SECTION IV FIRST AID MEASURES

Ingestion : Ingestion is not likely. See supplemental page for emergency procedures. Inhalation : Remove to fresh air. If symptoms persist, obtain medical attention. Skin Contact: Soak in warm water. See supplemental page for emergency procedures. Eye Contact : See supplemental page for emergency procedures. Obtain medical attention.

SECTION V - FIRE FIGHTING MEASURES

Flash Point : Approximately 185 deg F Method: Tag Closed Cup

Recommended

Extinguishing Agents : Carbon dioxide, foam, dry chemical

Special Firefighting

Procedures : Not available

Hazardous Products Formed

by Fire or Thermal Decomp: Irritating organic vapors.

Unusual Fire or Explosion

Hazards : None

Explosive Limits

(% by volume in air) Lower : Not available (% by volume in air) Upper : Not available

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak : Flood with water to polymerize. Soak up with an

inert absorbent.

SECTION VII - HANDLING AND STORAGE

Safe Storage : Store at or below 75 deg F

(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information) Handling : Avoid contact with skin and eyes. Avoid breathing vapor.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes : Safety glasses or goggles.

Skin : Nitrile or polyethylene gloves and aprons. Do not use cotton.

See supplemental page for additional information.

Ventilation: Local ventilation may be desirable when using large amounts

in a confined area.

See Section 2 for Exposure Limits.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Water white to straw colored liquid.

Odor : Negligible

Boiling Point : More than 300 deg F
pH : Does Not Apply
Solubility in Water : Polymerized by water

Specific Gravity : 1.1

Volatile Organic Compound

(EPA Method 24) : 65.0%; 715 grams per liter

Vapor Pressure : Less than 0.02 mm
Vapor Density : Not available
Evaporation Rate (Ether = 1) : Not available

SECTION X - STABILITY AND REACTIVITY

56479/MOREY CORP. /L0C46040 Stability : Stable Hazardous Polymerization: Will not occur. Incompatibility : Polymerized by contact with water, alcohols, amines, alkalies. Hazardous Decomposition Products (non-thermal) : None SECTION XI - TOXICOLOGICAL INFORMATION See Section III SECTION XII - ECOLOGICAL INFORMATION No data available \_ SECTION XIII - DISPOSAL CONSIDERATIONS Recommended methods of : Polymerize as above. Incinerate following EPA disposal and local regulations. EPA Hazardous Waste Number NH - Not a RCRA Hazardous Waste Material SECTION XIV - TRANSPORTATION INFORMATION DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name : Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters) Hazard Class or Division: Unrestricted (Not more than 450 liters) Combustible liquid (More than 450 liters) Identification Number None (Not more than 450 liters); NA 1993 (More than 450 liters) : None Marine Pollutant Proper Shipping Name : Unrestricted (not more than one pint); Aviation regulated liquid, n.o.s., (Cyanoacrylate Ester) (Not more than one pint) Class or Division Unrestricted (Not more than one pint); Class 9 (More than one pint) UN or ID Number : None (Not more than one pint) UN 3334 (More than one pint) SECTION XV - REGULATORY INFORMATION CA Proposition 65: No California Proposition 65 chemicals are known to be present SECTION XVI - OTHER INFORMATION Estimated NFPA(R) Code Heath Hazard : 2 Fire Hazard : 2 Reactivity Hazard Specific Hazard : Does not apply Estimated HMIS Code: Health Hazard : 2 Flammability Hazard : 2 Reactivity Hazard : 1 Personal Protection : See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coating Assn.

Prepared By : Stephen Repetto

١.

Title : Research Chemist, Enviormental Health & Safety
Company : Loctite Corp., 1001 Tr Br Cr, Rocky Hill, CT 06067

#### 56479/MOREY CORP.

(24 hr.) Phone: (860) 571-5100

Revision Date : January 27, 1999 Revision: 0026

SECTION XIII - SUPPLEMENT

INFORMATION FOR FIRST AID AND CASUALTY TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below. SKIN CONTACT

Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

#### SKIN ADHESION

First immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g., a spatula or a teaspoon handle; then remove adhesive from the skin with sooap and water. Do not try to pull surfaces apart with a direct opposing action. EYELID TO EYELID OR EYEBALL ADHESION

In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

#### ADHESIVE ON THE EYEBALL

Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is acheived. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

#### MOUTH

If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

#### BURNS

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

#### SURGERY

It should never be necessary to use such a drastic method to separate accidentally bonded skin.

56479 MOREY CORP.

2659 WISCONSIN AVE. DOWNERS GROVE, IL 60515

EIS, Inc. Bldg 100, Ste 400 3715 Northside Parkway, NW ATLANTA, GA 30327

PHONE # (404)487-3612 Dave Sharpe

FAX # (404)609-6084

MATERIAL SAFETY DATA SHEET INFORMATION:

PLEASE FIND ENCLOSED MATERIAL SAFETY DATA SHEETS (MSDS) COVERING ITEMS PURCHASED FROM ELECTRICAL INSULATION SUPPLIERS (EIS). OSHA REGULATIONS REQUIRE MSDS INFORMATION BE MADE AVAILABLE TO ALL PERSONNEL WHO MAY BE EXPOSED TO HAZARDOUS MATERIALS IN THE WORK PLACE.

UNDER THE "EMERGENCY PLANNING COMMUNITY RIGHT-TO-KNOW ACT OF 1986" INVENTORY AND LOCATION INFORMATION, CONCERNING HAZARDOUS MATERIALS MFG JOB SITE, MAY NEED TO BE REPORTED TO THE LOCAL FIRE DEPARTMENT, THE LOCAL EMERGENCY PLANNING COMMITTEE AND THE STANDARD RESPONSE COMMISSION. YOU MAY WANT TO REFERENCE 40 CFR PART 372 FOR ADDITIONAL INFORMATION. MANUFACTURERS MUST REPORT ANNUAL RELEASES OF LISTED TOXIC CHEMICALS INTO THE ENVIRONMENT, ACCORDING TO SARA TITLE III.

ACCORDING TO 29 CFR PART 1910.1200 PARAGRAPH (g)(6) OF THE HAZARD COMMUNICATION STANDARD, A MSDS IS TO BE PROVIDED THE FIRST TIME THE CUSTOMER BUYS AN ITEM REQUIRING A MSDS. IF AT ANY TIME THE MSDS IS UPDATED OR CHANGED, THE UPDATED MSDS MUST BE SUPPLIED WITH THE FIRST SHIPMENT AFTER THE MSDS UPDATE HAS OCCURRED.

IF YOU NEED FURTHER INFORMATION CONCERNING YOUR SITUATION, YOU MAY CONTACT THE EPA IN WASHINGTON, D.C. THEIR TOLL FREE NO. IS (800)535-0202; THE RCRA/SUPERFUND HOT LINE IS (800)424-9346 OR (703)920-9810; THE TSCA HOT LINE IS (202)554-1404.

BY PROVIDING THIS DOCUMENTATION, EIS IS COMPLYING WITH FEDERAL LAWS GOVERNING MSDS INFORMATION, AS IS KNOWN TO US. THIS IS A SERVICE AIMED AT HELPING YOUR BUSINESS TO ALSO COMPLY WITH GOVERNMENT REGULATIONS.

DAVE SHARPE

"SEE THE REVERSE SIDE FOR DOCUMENT NAME AND P.O. NUMBER"

56479/MOREY CORP.

SHIP

BLR240

MSDS DOCUMENT LOC46040

DATE CUSTOMER PURCHASE ORDER NUMBER 02/26/01 118400

. To. PHIL MYER

From: Moline Paint Manufacturing Co. 11-17-95 8:07am p. 2 of 5

date of prep : 11/17/95

\*\*\* MATERIAL SAFETY DATA SHEET \*\*\* 

11-C106A (page 1)

manufacturer : MOLINE PAINT MANUFACTURING CO.

address : 5400 23RD AVENUE

MOLINE, IL 61265-5096

: HEALTH : 21 : | FLANNABILITY : 3 |

telephone# : (309) 762-7546 ! REACTIVITY : 0 : emergency# : (309) 762-7546 ; PERSONAL PROTECT .: I

product class: PAINT OR ALLIED PRODUCT mfg. code id : 11 C1D6A

(HAZARD RATING : O=least. I=slight. Z=moderate. 3=high. 4=extreme. x=chronic)

(I - safety glasses, gloves, combination dust and vapor respirator)

trade name : CATERPILLAR VELLOW PAINT

#### HAZARDOUS COMPONENTS

| no.   | component.              | CAS#       | % by wt. | SARA 313 | vapor pressure<br>(mm Hg @ 2N C) | LEL<br>(0 25 C)   |
|-------|-------------------------|------------|----------|----------|----------------------------------|-------------------|
| <br>} | XYLENE                  | 1330-20-7  | 25 - 30  | YES      | 6.60                             | 1.10              |
| !     | YELLOW IRON OXIDE       | 51274-00-1 | 10 - 15  | NÙ       | N/A                              | N/A               |
| ,     | LIGHT AROMATIC NAPHTHA  | 64742 95 6 | 10 15    | NO       | 2.60                             | 0.20              |
|       | ETHYLBENZËNE            | 1M-41-4    | 5 - 10   | YES      | 5.40                             | 1.00              |
| )     | TITANIUM DIOXIDE        | 13463-67-7 | 5 - 10   | NO       | N/A                              | N/A               |
|       | 1.2.4-TRINETHYL BENZENE | 95-63-6    | 1 - 5    | YES      | N/A                              | N/A               |
|       | HEAVY AROMATIC NAPHTHA  | 64742-94-5 | 1 - 5    | NÚ       | (3.00 (@ 25 C)                   | 03.0              |
| ,     | MINERAL SPIRITS         | 8052 41 3  | 1 5      | NO       | 2.60                             | 0.70              |
| 9     | VM & P NAPHTHA          | 8032-32-4  | 1 - 5    | NO       | 5.20                             | 0. <del>9</del> 0 |

None of the components of this product are recognized as carcinogenic by NTP, OSHA, or IARC. This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm (Proposition 65).

(N/A = not applicable)

#### SECTION II-B OCCUPATIONAL EXPOSURE LIMITS

|     | AH2O                  |             | ACCIH                |                    | HFC             |               |
|-----|-----------------------|-------------|----------------------|--------------------|-----------------|---------------|
| no. | PEL/TVA               | PEL/CETLING | TI V/TVA             | TLV/STEL           | PEL/TWA         | PEL/CETI, ING |
|     | 100 ppm; 150 ppm STEL | N/E         | 100 ppm. 434 mg/m3   | 150 ppm. 651 mg/m3 | N/E             | N/E           |
|     | 10 mg/m3              | N/E         | N/E                  | N/E                | N/E             | N/E           |
|     | N/E                   | N/E         | N/E                  | N/E                | 50 ppm (EXXON)  | N/E           |
|     | 100 ppm; 125 ppm STEL | N/E         | 100 ppm, 434 mg/m3   | 125 ppm, 543 mg/m3 | N/E             | N/E           |
|     | 10 mg/m3 Total Dust   | (FINAL)     | 10 mg/m3 Total Dust  | N/E                | N/E             | N/E           |
|     | 25ppm (125mg/m3       | N/E         | 25ppm (123mg/m3)     | N/E                | N/E             | N/E           |
|     | N/E                   | N/E         | N/E                  | N/E                | 100 ppm (EXXÚN) | N/E           |
|     | 100 ppm (AS STODDARD  |             | 100 ppm (AS STODDARD | SOLVENT)           | N/E             | N/E           |
| ,   | 300 ppm FINAL         | N/E         | 300 ppm              | N/E                | N/E             | N/F           |

The dried film of this product is hazardous when removed by sanding, grinding, or welding.

(N/E = not established)

SECTION III PHYSICAL DATA ......

boiling point : not established \* volatile by volume : 65.82 (Theoretical) X volatile by weight : 51.34 (Theoretical) weight per gallon : 9.24 (Theoretical) evaporation rate : < 1 (ether = 1) vapor density : > 1 (air - 1) specific gravity : 1.109 (Theoretical)

La Esala IVE to

NOV 17 1995

date of prep : 11/17/95

\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

11-C106A (page 2)

HEALTH INFORMATION

EYE CONTACT

PRODUCT IS PRESUNED TO BE NODERATELY IRRITATING TO THE EYES. PRODUCT VAPORS AND/OR WISTS MAY ALSO BE IRRITATING TO THE EYES.

BASED ON THE PRESENCE OF COMPONENTS 3 AND 7 PRODUCT IS PRESUMED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED CONTACT MAY CAUSE DAMAGE TO THE SKIN. BASED ON THE PRESENCE OF COMPONENT 9 ABSORPTION THROUGH THE SKIN MAY RESULT IN SYMPTOMS OF EXPOSURE AS THOSE DESCRIBED FOR INHALATION AND INGESTION. PROLONGED OR REPEATED CONTACT MAY RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN DERNATITIS. BASED ON THE PRESENCE OF COMPONENTS 3 AND 7 CONTACT MAY RESULT IN A PRONOUNCED PHOTOSENSITIZATION EFFECT.

#### THEAL ATTOM

EXPOSURE MAY PRODUCE IRRITATION TO THE MOSE. THROAT, RESPIRATORY TRACT, AND OTHER MUCOUS MEMBRANES, EXPOSURE TO HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND MERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

MODERATELY TOXIC. SMALL AMOUNTS OF THE LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY RESULT IN SEVERE LUNG DAMAGE. INGESTION MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

#### SIGNS AND SYMPTOMS

SYMPTOMS OF EYE IRRITATION INCLUDE PAIN. TEARING. REDDENING AND SYELLING. SYMPTOMS OF SKIN IRRITATION INCLUDE REDDENING. SYELLING. RASH AND REDNESS. SYMPTOMS OF RESPIRATORY IRRITATION INCLUDE RUNNY MOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. SYMPTOMS OF GASTROINTESTIONAL IRRITATION INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA, CENTRAL NERVOUS SYSTEM DEPRESSION HAY BE EVIDENCED BY HEADACHE, DIZZINESS, NAUSEA AND SYMPTONS OF INTOXICATION: IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH WAY OCCUR. SYMPTOMS OF CHRONIC OVEREXPOSURE INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION.

#### AGGRAVATED MEDICAL CONDITIONS

PREEXISTING SKIN. EYE AND RESPIRATORY DISORDERS HAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT. IMPAIRED CENTRAL NERVOUS SYSTEM FUNCTIONS FROM PREEXISTING DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

#### OTHER HEALTH EFFECTS

BASED ON THE PRESENCE OF COMPONENT 9 CHRONIC OVEREXPOSURE MAY CAUSE INJURY TO THE KIDNEYS AND LIVER. BASED ON THE PRESENCE OF COMPONENT 5 CHRONIC OVEREXPOSURE TO TIO2 DUST HAY CAUSE SLIGHT LUNG FIBROSIS. BASED ON THE PRESENCE OF COMPONENT 2 CHRONIC OVEREXPOSURE TO PRODUCT DUST WAY PRODUCE A BENIGN PNEUMOCONIOSIS TERMED 'SIDEROSIS'.

SECTION V

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

INNEDIATELY FLUSH EYES WITH COPIOUS ANOUNTS OF WATER FOR AT LEAST 15 NINUTES HOLDING EYELIDS OPEN, SEEK PROMPT MEDICAL ATTENTION.

#### SKIN CONTACT

REMOVE CONTAMINATED CLOTHING AND SHOES. WIPE EXCESS FROM SKIN AND FLUSH WITH WATER USING SOAP IF AVAILABLE. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. DO NOT REUSE CLOTHING UNTIL THOROUGHLY DECONTANINATED.

#### INHALATION

REMOVE VICTIM TO FRESH AIR AND TREAT SYMPTOMATICALLY. PROVIDE DRYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF THE VICTIM IS NOT BREATHING. SEEK PROMPT MEDICAL ATTENTION.

#### INGESTION

DO NOT INDUCE VONITING. IF VONITING SPONTANEOUSLY OCCURS. KEEP THE VICTIM'S HEAD BELOW THE HIPS TO PREVENT ASPIRATION INTO THE LUNGS. SINCE ASPIRATION INTO THE LUNGS CAN CAUSE VERY SERIOUS, PERMANENT DAMAGE. THE DECISION OF WHETHER TO INDUCE VONITING OR NOT SHOULD BE MADE BY A PHYSICIAN. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. CONSULT A PHYSICIAN. HOSPITAL OR POISON CONTROL CENTER AND/OR TRANSPORT TO AN EMERGENCY FACILITY IMMEDIATELY.

>> COMPONENTS 1, 3, 4, 6, 7, 8 AND 9 MAY CAUSE SEVERE, PERMANENT DAMAGE IF ASPIRATED AND VOKITING SHOULD NOT BE INDUCED.

Land Contract Contract

NOV 17 1995

TC. PHIL MYER

From: Moline Paint Manufacturing Co.

11-17-95 8:08am

date of prep : 11/17/95

\*\*\* MATERIAL SAFETY DATA SHEET \*\*\* 

11-C106# (page 4)

ADDITIONAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT. SPARKS. AND FLAME. EXTINGUISH PILOT LIGHTS. CIGARETTES AND TURN OFF OTHER POSSIBLE SOURCES OF IGNITION PRIOR TO USE AND UNTIL VAPORS ARE GONE. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION, CONTAINERS, EVEN IF EMPTY. CAN CONTAIN EXPLOSIVE VAPORS, DO NOT CUI, DRILL, CRIND, OR WELD NEAR CONTAINERS.

CONTAINERS CAN CONTAIN HAZARDOUS PRODUCT RESIDUES EVEN WHEN EMPTY. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SHOKING, OR USING TOILET FACILITIES.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT, HOWEVER, VE MAKE NO VARRANTY. EXPRESSED OR IMPLIED. REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

Here are a series to hear

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THE MUREY CORP

· Tc. PHIL MYER

From: Moline Paint Manufacturing Co.

11-17-95 8:08am

date of prep : 11/17/95

\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

11-C106A (page 3)

FIRE AND EXPLOSION HAZARDS

OSHA FLAHMABILITY CLASSIFICATION

DOT PROPER SHIPPING NAME

FLANNABLE LIQUID - CLASS IB

PAINT

FLASH POINT : 50 degrees F. (Theoretical)

UN1263 PGII

EXTINGUISHING MEDIA

USE WATER FOG. FOAM, DRY CHENICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

MARNING, FLAMMABLE, CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT HELMET, FACE SHIELD, BUNKER COAT. GLOVES, RUBBER BOOTS, AND A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE, CONTAINER AREAS EXPOSED TO DIRECT FLAXE CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS WEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

SECTION VII

REACTIVITY

STABILITY : STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID

AVOID OXIDIZING MATERIALS. BASED ON THE PRESENCE OF COMPONENT 9 AVOID HIGH TEMPERATURES.

HAZARDOUS DECOMPOSITION PRODUCTS

IRRITATING ALDEHYDES AND KETONES. CARBON DIOXIDE. CARBON HONOXIDE. AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION VIII

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION

USE VENTILATION AS REQUIRED TO CONTROL VAPOR. MIST. AND/OR DUST CONCENTRATIONS - AT LEAST 10 AIR CHANGES PER HOUR ARE RECOMMENDED FOR GOOD GENERAL ROOM VENTILATION. IF EXPOSURE EXCEEDS THE PEL/TLV. USE THE APPROPRIATE NIGSH-APPROVED RESPIRATOR.

PROTECTIVE CLOTHING

WEAR SAFETY GLASSES, GOGGLES, OR A SPLASH SHIELD TO PREVENT EYE CONTACT, CONTACT LENSES SHOULD NOT BE WORN. WEAR APPROPRIATE GLOVES AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND CLOTHING.

ADDITIONAL PROTECTIVE MEASURES

EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR USE IN AN EMERGENCY.

SECTION IX

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

LARGE SPILLS >> EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS. WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY. SAND OR OTHER SUITABLE MATERIAL: PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE: DISPOSE OF FLUSH SOLUTIONS AS ABOVE. SHALL SPILLS >> TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON LEAKING CONTAINERS.

VASTE DISPOSAL

OBSERVE ALL FEDERAL. STATE. AND LOCAL REGULATIONS REGARDING PROPER DISPOSAL.

Enne a liere & L. Bran . ...

NOV 17 1995

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## **POTTING**

(SEE EMERSON & CUMING 23LV, 2850FT, 2651MM, ECCOBOND A-401-37, ECOGEL1265, OR STYCAST 2754)

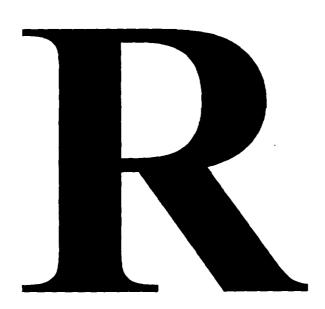
## PRONTO CA-40H

(SEE **SUPERGLUE**)



## M.S.D.S. BINDER





MATERIAL PAPETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY TRENTIFICATION

PRODUCT NAME : RESTECH ACTIVATOR 142

ICENTIFICATION NUMBER: 00142

PRODUCT USE/CLASS : Urethane activator

TMC#120004]

LIMIT / LIMIT A

SUPPLIER:

Loctite Chemical Products, L.P.

6120 East 59th Avenue Commerce City, CO 80022

EMERGENCY TELEPHONE: 800-424-9300

24 hzs

FREPARER: Cathy Griffith, PHONE: 303-789-5651, PREPARE DATE: 03/19/97

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| ITEM | CHENICAL NAME                                                           | CAS NUMBER             | LESS THAN              |
|------|-------------------------------------------------------------------------|------------------------|------------------------|
|      | Diphenylmethane hitsocyanate (2,2:2,4) 4,4'-diphenylmethaned/isccyanate | 26447-40-5<br>101-68-8 | 10.0-30.0<br>30.0-60.0 |

|      | <del>-</del> |                |                | TS          |         |      |
|------|--------------|----------------|----------------|-------------|---------|------|
|      |              | ACGIH          | OS             | HA          | Company |      |
| ITEM | TLV-TWA      | TLV-STEL       | PEL-TWA        | Pel-ceiling | TLV-TWA | SKIN |
| 01   | N.E.         | N.E.           | N.E.           | N/E         | N.E.    | NO   |
|      |              | N.E.           | N/A            | 0.02ppm     | N.E.    | NO   |
|      |              | 16 for abbrevi | •              |             |         |      |
| ==== |              |                | \- <del></del> |             |         |      |

EMERGENCY OVERVIEW: May cause target organ or system damage. Refer to chronic health effects section. Contents may develop pressure if exposed to water. At elevated temperatures may cause irritation of the eyes and respiratory tract. May cause allergic skin reaction. May cause allergic respiratory reaction. May cause skin and eye irritation.

SECTION 3 - HAZARDS IDENTIFICATION

ACUTI EFFECTS - EYE CONTACT: Moderately irritating to the eyes.

ACUTE EFFECTS - SKIN CONTACT: Moderate irritant. Prolonged contact may cause dermatitis.

ACUTE EFFECTS - INHALATION: Liquid particles breathed into the lungs may cause injury to the lungs, liver, or kidneys. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating. Causes respiratory tract irritation. Strong respiratory sensitizer.

ACUTE EFFECTS - INGESTION: Irritating to mouth, throat and stomach, with nouses.

CHRONIC CVEREXPOSURE EFFECTS: "Chronic overexposure to isocyanate may cause respiratory sensitization which may cause future reactions even at levels below the TLV. Reaction may be immediate or delayed up to several hours after exposure. Additionally, there are reports that sensitized individuals can experience symptoms when exposed to dust, cold air, or other irritants. Such sensitization and/or increased lung sensitivity may be temporary or permanent. Usermal/respiratory cross-sansitization reactions are possible.

Continued on Page 2)

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Product: 00142 Preparation Date: 03/19/97 SECTION 3 - HAZARDS IDENTIFICATION OTHER INFORMATION: Not Applicable. PRIMARY ROUTE (5) OF ENTRY: SKIN CONTACT, INHALATION, MYE CONTACT, SECTION 4 - FIRST ATD MEASURES EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention. SKIN CONTACT: Immediately flush affected area(s) thoroughly with water at least 15 minutes. Remove and wash contaminated clothing. Contaminated leather articles should be disposed of. Obtain medical attention. INMALATION: Remove to fresh air. If not broathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention. NOTES TO PHYSICIAN: The manifestations of respiratory symptoms, including pulmonary adama, resulting from acute overexposure may be delayed. specific antidote. Supportive care. Treat symptomatically. SECTION 5 - FIRE FIGHTING MEASURES FLASH POINT: 300 F LOWER EXPLOSIVE LIMIT: N.A. (TAGLIABUE CLOSED CUP) UPPER EXPLOSIVE LIMIT: N.A. AUTOIGNITION TEMPERATURE: No data EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM, WATER FO3. UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion. SPECIAL FIREFIGHTING PROCEDURES: Use NIOSH-approved self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame. SECTION  $\epsilon$  - ACCIDENTAL RELEASE MEASURES ====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: meterial in waste container with neutralizing solution of 90% water, 8% concentrated ammonia, and 7% detergent. Add about 10 parts neutralizer one part of isocyanate, with making. Allow to stand uncovered for 40 hours. Rinse floor with same solution as above, letting the solution remain on the contaminated area for at least 15 minutes before removal. Add about 10 parts neutralizer per

#### SECTION 7 - HANDLING AND STORAGE

HANDIANG: Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing vapors from heated material. Avoid contact with eyes, skip, and clothing. DO NOT take internally. FOR INDUSTRIAL USE ONLY.

Continued on Page 3)

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Freduct: 00142
 Preparation Date: 03/19/97
 Page 3
 SECTION 5 - FIRE FIGHTING MEASURES
 |----
STORAGE: Store away from heat. Store in a tightly closed container.
 Purge container with nitrogen before resealing. Keep dry.
 SECTION 9 - EXPOSURE CONTROLS/PTRAGNAL PROTECTION
ENCINEERING CONTROLS: No special ventilation normally required. Local
exhaust as needed to control vapor or dust levels to below lowest component
RESPIRATORY PROTECTION:
 If use is performed in a poorly-ventulated space,
if vapor levels exceed TLV/PEL, or it effects occur, use NIOSH-approved
positive-pressure supplied-air respirator in accordance with applicable
health and safety regulations and manufacturer's recommendations.
BKIN PROTECTION: Clean Clothing to cover skin.
 Saranex gloves. Butvl
rubber cloves. Nitrile gloves. Supported PVA gloves. EYE PROTECTION: Chemical splash goggles.
OTHER PROTECTIVE EQUITYMENT: Accessible eye wash and safety shower.

 SECTION & - EXPOSURE CONTROLS/PERSONAL PROTECTION
HYGIENIC PRACTICES: Follow good general industrial safety practices during
use. Do not smoke or eat during use. Wash after handling. Use only with
adaquate Vennilation. DO NOT reuse empty containers without commercial clean or recondition. Follow all MSDS/label preceditions even after
container is emptied.
|-----
 SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
BOILING RANGE
 : 381 - 381 F
 VAPOR DENSITY
 : Is heavier than air
 : Mild musty
ODOR
 ODOR THRESHOLD
 : No data
AFPEARANCE
 EVAPORATION RATE: Is slower than Bury).
 : Brown
SCLUBILITY IN H20 : Reacts with water
 Acetate
 SPECIFIC GRAVITY: 1.2392
FREEZE POINT
 : No data
VAPOR PRESSURE
 : Very low
 pH @ 0.0 &
 : N/A
PHYSICAL STATE
 : Liquid
 VISCOSITY
 : Low
COEFFICIENT OF WATER/OIL DISTRIBUTION: No data
 (See Section 16 for abbreviation legend)
 SECTION 10 - STABILITY AND REACTIVITY
CONDITIONS TO AVOID: Prolonged exposure to heat. Exposure to moisture. INCOMPATIBILITY: Strong Lewis or mineral acids. Strong bases or oxidants.
Metals. Surface-sctive compounds, water. Alcohols. Amines.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of darbon. mxides of nitrogen,
ammonia. Toxic monomers. Traces of hydrogen cyanide in oxygen-deficient
environments.
HAZARDOUS POLYMERIZATION: Will, not occur under normal conditions.
STABILITY: This product is stable under normal storage conditions.
 SECTION 11 - TOXTCOLOGICAL PROPERTIES
No product or component toxicological information is available.
 SECTION 12 - ECOLOGICAL INFORMATION
ECOLOGICAL TEST DATA: Not Applicable.
 Continued on Page 4)
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Product: 00142
 Preparation Date: 03/19/97
 Page 4

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 - SECTION 13 - DISPOSAL CONSIDERATIONS
DISPUSAT, METHOD: Review all current federal, state, and local regulations
regarding health and disposal for appropriate disposal procedures.
 SECTION 14 - TRANSPORTATION INFORMATION
DOT PROPER SHIFPING NAME: Not regulated
DOT TECHNICAL NAME:
DOT HAZARD CLASS: N/A
 HAZARD SUBCLASS: N/A
 PACKING GROUP: N/A
DOT UN/NA NUMBER: N/A
 RESP. GUIDE PAGE:
INTERNATIONAL SHIPPING NAME: Not regulated
INTERNATIONAL ID NUMBER: n/a
INDG CLASS (10,20):
 n/a
 IMDG FAGE NUMBER:
IMDG EME:
 IATA CLASS (10,20): no
ADR ITEM NO.:
 n/s
 ADR TREMCARD:
 SECTION 15 - REGULATORY INFORMATION
CBHA: Hazardous by definition of Mazard Communication Standard (29 CFR
1910.1200)
CERCLA - SARA HASARD CATEGORY:
This product has been reviewed, and is considered, under
applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD
SARA SECTION 313:
This product contains the following substances subject to the reporting
regulrements of 40 CFR Part 372:
 ----- Снемтсат, памк -------
 CAS NUMBER WT/WT & IS LESS THAN
4,4'-diphenylmethaned1.'socyanate
 TOT=や前+魚
 JU.D-50.0
TOXTO SUBSTANCES CONTROL ACT:
The Chemical substances in this product are on the TSCA Section R
inventory.
No components tound.
U.S. STATE REGULATIONS: AS FOLLOWS -
NEW JERSEY RIGHT-TO-KNOW:
The following materials are non-hazardous, but are among the top five
components in this product:
 CAS NUMBER
Higher Oligomers Of MDI
 39310-05-9
PENNSYLVANIA RIGHT-TO-KNOW:
The following non-hazardous ingredients are present in the product at
greater than 3%:
----- CHEMICAL NAME -----
 CAS NUMBER
Higher Oligomers Of MDI
CALIFORNIA PROPOSITION 65:
No Proposition 65 chemicals known to exist in this product.
 Continued on Page 5)
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MOR 001162

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MATERIAL SAFETY DATA SHEET! SECTION 1 - CHEMICAL PROMICT AND COMPANY IDENTIFICATION 22 24 c par 122 par 122 c a a a a a a a : RESTECH POLYOL 309 PRODUCT NAME IDENTIFICATION NUMBER: 10309 PRODUCT USE/CLASS : Polyurethane base SUPPLIER: rel-Pro Chemical Products, L.P. 61,20 Wast 58th Avenue Commerce City, CO 80022 EMERGENITY INTERHONE: MOU-424-9300 24 brs PREPARER: Cathy Griffith, PHONE: 303-209-5651, PREPARE DATE: 09/24/96 SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS ITEM ----- CHEMICAL NAME CAS NUMBER \*\*\* No hazardous ingredients per 29 CFR 1910.1200 \*\*\* ----- EXPOSURE LIMITS -----ITEM TLV-TWA TLV-STEL PEL-TWA 09HA CCMPANY TLV-TWA 5KIN \*\*\* No hazardous ingredients per 29 CFR 1910.1200 \*\*\* (See Section 16 for abbreviation legend) SECTION 3 - HAZARDS IDENTIFICATION EMERGENCY OVERVIEW: Not herardous in normal industrial use. ACUTE EFFECTS - EYE CONTACT: May cause slight irritation. ACUTE EFFECTS - SKIN CONTACT: No hazard in normal industrial use. ACUTE EFFECTS - INHALATION: No hazard in normal industrial use. ACUTE EFFECTS - INGESTION: May cause hausea and vomitting. CHRONIC OVEREXPOSURE EFFECTS: Hone known. OTHER INFORMATION: Not Applicable. PRIMARY ROUTE (5) OF ENTRY: Unknown SECTION 4 - FIRST AID MEASURES EYE CONTACT: Immediately flush eyes wih plenty of water. Get medical attention, if irritation persists. SKIN CONTACT: Wash with scap and water. Got medical attention if printation develops or persists. INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, xemove to fresh air and got medical attention if cough or other symptoms develop.

Continued on Page 2)

MOR 001163

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Product: 10309 Proparation Date: 09/24/96 Page 2

SECTION 3 - HAZARDS IDENTIFICATION

INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Not Applicable.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POTNT: 350 F

LOWER EXPLOSIVE TIMET: N.A.

(TARTITABUE CLOSED CUP)

UPPER EXPLOSIVE LIMIT: N.A.

AUTHORITION TEMPERATURE: No data

EXTINGUISHING MEDIA: ALCOHOL FOAM, CO2, DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDJ: Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Use NTOSH-approved self-contained breathing apparatus and full protective Clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Reclaim elean material. Contaminated material should be swept or showeled into appropriate waste container and disposed of in accordance with applicable federal, state and local regulations.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Wash hands before eating. Avoid prolonged or repeated contact with SXID. DO NOT take internally. FOR INDUSTRIAL USE ONLY.

STORAGE: Store away from heat. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Conoral ventilation usually adequate.

RESPIRATORY PROTECTION: None normally required under general Ventilation. If exposure levels are unknown, if levels exceed TLV/PEL or if effects occur, use NIOSE-approved dust/mist respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

SKIN PROTECTION: Clean clothing to cover skin. Cleth or synthetic gloves. HYE PROTECTION: Safety glasses. OTHER PROTECTIVE EQUIPMENT: Accessible eye wash and safety shower.

HYGIENIC PRACTICES: Follow general industrial safety practices during use. DO NOT reuse empty containers without commercial Clean or recondition. Follow all MSDS/label precautions even after container is amptied.

Continued on Page 3)

MOR 001164

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THE MUKEY LUKP.

Product: 10309 Preparation Date: 09/24/95 Page 3 SECTION 9 - PHYSICAL AND CHEMICAT, PROPERTIES 1=== BOILING RANGE : N.A. VAFOR DENSITY : Is heavier than air ODOR THRESHOLD : No data SOJO : Mild cily APPEARANCE : Black EVAPONATION RATE: Is slower than Butyl SCLUBILITY IN H20 : Insoluble Acetate SPECIFIC GRAVITY: 0.8921 FREEZE POINT : No data ; No data N/A: 1 (1.0 H N/A
V1503021TY : Low VAPOR PRESSURE PHYSICAL STATE : Liquid COEFFICIENT OF WATER/OIL DISTRIBUTTON: No data (See Section 16 for abbreviation legend) ------SECTION 10 - STAPILITY AND REACTIVITY CONDITIONS TO AVGID: Prolonged exposure to heat. INCOMPATIBILITY: Not Applicable. HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon. Various hydrocarbons. HAZARDOUS POLYMERIZATION: Will not occur under normal conditions. STABILITY: This product is stable under normal storage conditions. SECTION 11 - TOXICOLOGICAL PROPERTIES COMPONENT TOXICOTOGICAL INFORMATION: ----- LC50 ----- LC50 -----NORE KNOWN SECTION 12 - ECOLOGICAL INFORMATION ROOMOGICAL TEST DATA: Not Applicable. SECTION 13 - DISPOSAL CONSIDERATIONS UISPOSAL METHOD: Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. Incineration preferred. SECTION 14 - TRANSPORTATION INFORMATION DOT PROPER SHIPPING NAME: Not regulated DOT TECHNICAL NAME: N/A HAZARD SUBCTASS: N/A DOT HAZARD CLASS: N/A PACKING GROUP: N/A RESP. GUIDE PACE: DOT UN/NA NUMBER: N/A INTERNATIONAL SHIPPING NAME: N/A INTERNATIONAL ID NUMBER: N/A TMOS PAGE NUMBER: INDG CLASS (10,20): N/A IATA CLASS (1e.2e): N/A IMDG PM9: N/A ADR ITEM NO.: N/A AUR TREMCARD: SECTION 15 - REGULATORY INFORMATION OSHA: Not hegardous by definition of Hazard Communication Standard (29 CFR 1910.1200) CERCLA - SARA HARARD CATEGORY: This product has been reviewed, and is considered, under applicable definitions, to meet the following categories: SARA SECTION 313: This product contains the following substances subject to the reporting requirements of 40 CER Part 372: NONE Continued on Page 41

MOR 001165

AUG 1 6 1999
THE MUKES LUKE.

Product: 10309

Preparation Date: 09/24/96

Page 4

TOXIC SUBSTANCES CONTROL ACT: The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

CAS NUMBER No components found.

#### NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----CAS NUMBER Limestone, Calcium carbonate 1317-65-3 Polyether polyol Bis(2-ethylhexyl) Terephthalate 25322-69-4 6422-86-2 Potassium sodium silicoaluminate 1344-00-9 Dipropylene glycol 25265-71-8

#### PENNEYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 34:

CAS NIMAER Limestone, Calcium carbonate 1317-65-3 Polyether polyel 25377-69-4 Bis(2-ethylhexyl) Terephthalate 6427-Rh-7 Potessium sodium silicoaluminate 1344-00-9 Dipropylene alycol 25265-71-8

#### CALIFORNIA PROPOSITION 65:

No Proposition 65 chemicals known to exist in this product.

CANADIAM WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings. CANADIAN WHMIS CLASS: NOT REGULATED

COMPONENT. RORA CLASSIFICATIONS: Not regulated COMPENENT RCRA CODES: Not Applicable. CERCLA RO VALUE (MINIMOM): None known

SECTION 16 - OTHER INFORMATION

REACTIVITY: 0

HMIS RATINGS - HEALTH: 0 FLAMMABILITY: 1

PREVIOUS MSDS REVISION DATE: 09/19/94 REASON FOR REVISION: Dew format

VOLATILE ORGANIC COMPOUNDS (VOCS): 0 grouns/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established,

N.D. - Not Determined
ABBREVIATIONS: ACCIH = American Conference of Governmental Industrial Hygienists; OSHA = US Occupational Realth and Safety Administration; UK = United Kingdom; TLV-TWA = Threshold Limit Value-Time Weighted Average (8) hrs) / STEL = Short-Term Excosure Limit (15 min); C - Ceiling Value, PEL = Permissible Exposure Limit

DISCLAIMER: To the best of our knowledge, the information contained in this MSDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material. <END OF MBD8>

MOR 001166

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PAGE: RTV11 1

MANUFACTURED BY:

EMERGENCY TELEPHONE:

GENERAL ELECTRIC CO. SILICONE PRODUCTS DIV (518) 237-3330 (24 HRS)

WATERFORD, NY 12188

SUPPLIED BY:

GENERAL ELECTRIC CO. SILICONE PRODUCTS DIV WATERFORD, NY 12188 (518) 237-3330 (24 HRS)

REVISED: 10/25/88

PREPARER: DA POLSINELLI

I PRODUCT IDENTIFICATION

\*\*\*

PRODUCT IDENTIFICATION: RTV11

CHEMICAL FAMILY

SILICONE RUBBER COMPOUND

CHEMICAL NAME: RTV SILICONE RUBBER

FORMULA: MIXTURE

### \*\*\* II PRODUCT COMPONENTS \*\*\*

| -                                                  | APPROX.    | ACGIH | OSHA |       | CAS REG    |
|----------------------------------------------------|------------|-------|------|-------|------------|
| PRODUCT COMPOSITION                                | <b>t</b> . | TLV   | PEL  | UNITS | NO.        |
| A. ĤAZARDOUS<br>ETHYL SILICATE<br>B. NON-HAZARDOUS | 1-5        | 10    | 100  | PPM   | 26352-16-9 |

#### FORMULATION INFORMATION:

THIS SPACE RESERVED FOR SPECIAL USE.

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NOV 29 1990

THE MOREY CORP.

\*\*\* III PHYSICAL DATA \*\*PRODUCT INFORMATION \$ VOLATILE BY VOLUME:2 : NA (F) NA (C) 3OILING POINT /APOR PRESSURE(20 C): NA MM HG EVAPORATION RATE : JAPOR DENSITY(AIR=1): NA (BUTYL ACETATE=1) (C) SPECIFIC GRAVITY : NA (F) NA :1.2 REEZING POINT : NA (F) NA (C) (WATER=1) AELTING POINT PHYSICAL STATE : LIQUID DENSITY :UNKNWN KG/M3 : SLIGHT ACID/ALKALINITY :NA MEG/G : WHITE COLOR PH :NA DOOR THRESHOLD : 17 (PPM) SOLUBILITY IN WATER(20C): NEG. SOLUBILITY IN ORGANIC SOLVENT: SOLUBLE, TOLUENE, XYLENE (STATE SOLVENT) ETHYL SILICATE : 334 (F) 168 BOILING POINT ( C) VAPOR PRESSURE(20 C): 2 MM HG VAPOR DENSITY(AIR=1): 7.2 IV FIRE AND EXPLOSITION DATA (F) 298.9 (C) BY COC IGNITION TEMP: NA (F) FLASH PT: 570 ( C) FLAMMABLE LIMITS IN AIR(%): LOWER NA UPPER NA SITIVITY TO MECHANICAL IMPACT (Y/N): SENSITIVITY TO STATIC DISCHARGE: SENSITIVITY TO STATIC DISCHARGE IS NOT EXPECTED. EXTINGUISHING MEDIA: ALL STANDARD FIREFIGHTING MEDIA SPECIAL FIREFIGHTING PROCEDURES: NONE KNOWN. V REACTIVITY DATA STABILITY: HAZARDOUS: X STABLE UNSTABLE POLYMERIZATION WILL NOT OCCUR HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS: CARBON MONOXIDE. CARBON DIOXIDE. ETHANOL. INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN. CONDITIONS TO AVOID: NONE KNOWN.

PAGE: RTV11

PAGE:

3

\*\*\* VI HEALTH HAZARD DATA \*\*\*

CUTE SIGNS/EFFECTS OF OVEREXPOSURE:

NGESTION:

HARMFUL IF SWALLOWED.

KIN CONTACT:

SKIN IRRITATION IS NOT EXPECTED, BUT MAY OCCUR IN CERTAIN SENSITIVE INDIVIDUALS.

:NHALATION:

MAY CAUSE MILD RESPIRATORY IRRITATION.

EYE CONTACT:

MAY IRRITATE EYES.

LEDICAL CONDITIONS AGGRAVATED:

RESPIRATORY

LIVER, KIDNEY

APPLIES IN UNCURED STATE.

THER:

NONE KNOWN.

CHRONIC EFFECTS OF OVEREXPOSURE:

RESPIRATORY AILMENTS.

LIVER AND KIDNEY DAMAGE.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION:

DO NOT INDUCE VOMITING. SLOWLY DILUTE WITH 1-2 GLASSES OF WATER OR MILK AND SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN:

WASH WITH SOAP AND WATER.

INHALATION:

NONE KNOWN.

EYES:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

NOTE TO PHYSICIAN:

NONE KNOWN.

TOXICITY:

ETHYL SILICATE

ACUTE ORAL LD50: >1000 (RAT)
ACUTE DERMAL LD50: NONE FOUND

MG/KG MG/KG

ACUTE DERMAL LD50: ACUTE INHALATION LC50:

LCLO>1000PPM/HR(RAT)

OTHER:

TESTED AS NON-IRRITATING TO EYE.

AMES TEST:

UNKNOWN

PRINCIPALS ROUTES OF EXPOSURE:

EYES.

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: 1

IIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY P, IARC, OR OSHA RODUCTS/INGREDIENTS

THIS SPACE RESERVED FOR SPECIAL USE.

PREVENTATIVE MEASURES (SECTIONS VII, VIII, IX)

\*\*\* VII SPECIAL PROTECTIVE EQUIPMENT

ESPIRATORY PROTECTION:

USE IN A WELL VENTILATED AREA.

ROTECTIVE GLOVES:

RUBBER GLOVES.

YE AND FACE PROTECTION:

- SAFETY GLASSES.

THER PROTECTIVE EQUIPMENT:

NONE KNOWN.

ENTILATION:

USE ONLY IN WELL VENTILATED AREA.

\*\*\* VIII SPILL, LEAK AND DISPOSAL PROCEDURES \*\*\*

CTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
WIPE, SCRAPE OR SOAK UP IN AN INERT MATERIAL AND

WIPE, SCRAPE OR SOAK UP IN AN INERT MATERIAL AND PUT IN A CONTAINER FOR DISPOSAL.

WASH WALKING SURFACES WITH DETERGENT AND WATER TO REDUCE SLIP-PING HAZARD.

WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION.

INCREASE AREA VENTILATION.

ISPOSAL METHOD:

DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

\*\*\* IX SPECIAL PRECAUTIONS \*\*\*

'RECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID CONTACT WITH SKIN AND EYES.

USE ONLY IN A WELL VENTILATED AREA.

CAUTIONI

INGINEERING CONTROLS:

EYEWASH STATIONS.

USE IN A WELL VENTILATED AREA.

PAGE: 5 RTV11 X SHIPPING AND REGULATORY CLASSIFICATION DATA OT SHIPPING NAME: NOT DOT REGULATED (SILICONE RUBBER COMPOUND) **KOT HAZARD CLASS:** NA MT LABELS(S): NА NA N/NA NUMBER: 'LACARDS: IONE :XPORT: 1A PA HAZARD WASTE: SARA HAZARD CLASS: TO BE DETERMINED YEMIS HAZARD CLASS: D2B TOXIC MATERIALS PSC CLASSIFICATION: NA **TRANSPORTATION CLASS:** NA RID (OCTI) NA ADR (ECE) NA RAR (IATA) NA NFPA/HMIS CLASSIFICATION FLAMMABILITY 0 , REACTIVITY 0 , HEALTH **3CHEDULE B:** :° ): ADDITIONAL INFORMATION: THIS PRODUCT OR ITS COMPONENTS ARE ON THE EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICALS (EINECS)...... THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTENT OF THE THIS PRODUCT OR ITS COMPONENTS ARE ON THE AUSTRALIAN INVENTORY (ACOIN)...... NEGL = NEGLIGIBLE C = CEILING LIMIT EST≈ ESTIMATED NF = NONE FOUND UNKN = UNKNOWN NA = NOT APPLICABLE NE = NONE ESTABLISHED ND = NONE DETERMINED REC = RECOMMENDED V = RECOMM. BY VENDOR BY-PRODUCT = REACTION BY- SKN = SKIN PRODUCT, TSCA INVENTORY TS = TRADE

RECEIVED

NOV 29 1990

THE MOREY CORP.

TS = TRADE SECRET

STATUS NOT REQUIRED UNDER R = RECOMMENDED

40 CFR PART 720.30(H-2) MST = MIST

PAGE:

GE Silicones

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MATERIAL SAFETY DATA SHEET COPYRIGHT GENERAL ELECTRIC CO. المدارية والمالية

PRODUCT: RTV102

SILICONE RUBBER SEALANT

PAC

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1.

MANUFACTURED BY:

GE SILICONES

260 HUDSON RIVER ROAD WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

(518) 237-3330

SUPPLIED BY:

GE SILICONES

260 HUDSON RIVER ROAD WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

(518) 237-3330

REVISED:

06/21/94

PREPARER: DA POLSINELLI

CHEMICAL FAMILY/USE:

SILICONE RUBBER

FORMULA: MIXTURE

#### COMPOSITION/INFORMATION ON INGREDIENTS 2.

| PRODUCT COMPOSITION/<br>CAS REG NO. | APPROX.  | ACGII<br>TWA | TLV<br>STEL | OSHA<br>Twa | PEL<br>STEL | UNITS |
|-------------------------------------|----------|--------------|-------------|-------------|-------------|-------|
| 1 U474BBOHC                         |          | ****         |             |             |             |       |
| 1. HAZARDOUS                        |          |              |             |             |             |       |
| METHYLTRIACETOXYSILANE              |          |              |             |             |             |       |
| 4253-34-3                           | 1-5      | 10(R)        | NE          | 10(R)       | NE          | PPM   |
| B. NON-HAZARDOUS                    |          |              |             |             |             |       |
| TRADE SECRET COMPONENT              |          |              |             |             |             |       |
|                                     | 10-30    | NF           | NE          | NF          | NE          | NA    |
| TRADE SECRET COMPONENT              |          |              | **-         |             |             | ****  |
| •                                   | 10-30    | 10           | NE          | 15          | NE          | MG/M3 |
| DIMETHYL POLYSILOXANE :             | SILANOL/ | ST           |             |             |             |       |
| 70131-67-8                          | 60-80    | NA           | NE          | NA          | NE          | NA    |
|                                     |          |              |             |             |             |       |

See Section 15 for description of any WHMIS Trade Secret(s).

#### HAZARDS IDENTIFICATION . 3.

**EMERGENCY OVERVIEW:** 

White Solid

Vinegar odor

Avoid contact with eyes.

May irritate the skin.

Uncured product contact irritates eyes.

Refer to other MSDS sections for detailed information.

POTENTIAL HEALTH EFFECTS:

INGESTION:

May be harmful if swallowed.

SKIN CONTACT:

Uncured product contact will irritate lips, gums and tongue.

Uncured product contact may irritate the skin.

INHALATION:

## .LICUNE RUBBER SEALANT

Causes irritation of the mouth, nose, and throat.

Applies only in uncured state.

EYE CONTACT:

Uncured product contact irritates eyes.

MEDICAL CONDITIONS AGGRAVATED:

None known.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

None known.

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Dermal - skin.

Eyes.

Inhalation.

OTHER:

Acetic acid released during curing.

This product contains Methylpolysiloxanes which can generate Formaldehyde at approximately 300 degrees farenheit (150°C) and above, in atomospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. An MSDS for Formaldehyde is available from GE Silicones.

#### 4. FIRST AID MEASURES

INGESTION:

Rinse mouth with water several times.

SKIN:

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.

Get medical attention if irritation persists.

INHALATION:

Move person to fresh air.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTE TO PHYSICIAN:

None known.

### 5. FIRE FIGHTING MEASURES

FLASH POINT: NA (C) NA (F)

METHOD : NA

IGNITION TEMP : UNK (C) UNK

FLAMMABLE LIMITS IN AIR - LOWER (%): UNK

FLAMMABLE LIMITS IN AIR - UPPER (%): UNK

SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA:

All standard firefighting media

SPECIAL FIREFIGHTING PROCEDURES:

None known.

#### 6. ACCIDENTAL RELEASE MEASURES

MOR 001174

(F)

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

\*\*\* CONTINUED ON NEXT PAGE \*\*\*

PAGE: 03

(F)

(F)

MOR 001175

Wipe, scrape or soak up in an inert material and put in a container for disposal.

Wash walking surfaces with detergent and water to reduce slipping hazard.

Wear proper protective equipment as specified in the protective equipment section.

#### 7. HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use.

Avoid contact with skin and eyes.

Caution]

Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation.

Product releases acetic acid during application and curing. Use mechanical ventilation to stay below TLV of 10 ppm acetic acid.

Uncured product contact irritates eyes.

Uncured product contact may irritate skin.

Use in a well ventilated area to prevent irritation by vapors.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### ENGINEERING CONTROLS:

Eyewash stations.

Use in a well ventilated area.

RESPIRATORY PROTECTION:

Use approved NIOSH respiratory protection if TLV exceeded..... Or over exposure is likely.

PROTECTIVE GLOVES:

Cloth gloves.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

None known.

**VENTILATION:** 

Use only in well ventilated area.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

| PRODUCT INFORMATION:       |          |            |     |    |
|----------------------------|----------|------------|-----|----|
| BOILING POINT              | :        | NA         | (C) | NA |
| VAPOR PRESSURE(20 C)(MM HG | ):       | UNK        |     |    |
| VAPOR DENSITY (AIR=1)      | :        | UNK        |     |    |
| FREEZING POINT             | :        | NA         | (C) | NA |
| MELTING POINT              | :        | NA         | (C) | NA |
| PHYSICAL STATE             | :        | SOLID      |     |    |
| ODOR                       | :        | ACETIC ACI | D   |    |
| COLOR                      | :        | WHITE      |     |    |
| ODOR THRESHOLD (PPM)       | :        | UNK        |     |    |
| % VOLATILE BY VOLUME       | :        | <8         |     |    |
| EVAP. RATE(BUTYL ACETATE=1 | ):       | <1         |     |    |
| SPECIFIC GRAVITY (WATER=1) | :        | 1.06       |     |    |
| DENSITY (KG/M3)            | :        | 1060       |     |    |
| ACID/ALKALINITY (MEQ/G)    | :        | UNK        |     |    |
| PH                         | <b>:</b> |            |     |    |

NA 61

VOC (EPA METH.24) (G/L) : SOLUBILITY IN WATER (20 C) :

INSOLUBLE

SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): TOLUENE

#### STABILITY AND REACTIVITY 10.

STABILITY:

STABLE

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

2,060 (RAT)

NONE FOUND

NONE FOUND

NONE FOUND

RAT >40,000

UNKNOWN

NA

NA

NA

>40,000 RAT,ESTM.

>535 MG/L ESTM.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide.

Carbon dioxide.

Silicon dioxide.

Acetic acid.

Formaldehyde.

INCOMPATIBILITY (MATERIALS TO AVOID):

None known.

CONDITIONS TO AVOID:

None known.

#### TOXICOLOGICAL INFORMATION 11.

**METHYLTRIACETOXYSILANE** 

ACUTE ORAL LD50 (MG/KG):

ACUTE DERMAL LD50 (MG/KG):

ACUTE INHALATION LC50 (MG/L):

OTHER:

None.

AMES TEST:

TRADE SECRET COMPONENT

ACUTE ORAL LD50 (MG/KG):

ACUTE DERMAL LD50 (MG/KG):

ACUTE INHALATION LC50 (MG/L):

OTHER:

None.

AMES TEST:

TRADE SECRET COMPONENT

ACUTE ORAL LD50 (MG/KG):

ACUTE DERMAL LD50 (MG/KG):

ACUTE INHALATION LC50 (MG/L):

OTHER:

None.

AMES TEST:

DIMETHYL POLYSILOXANE SILANOL/ST

ACUTE ORAL LD50 (MG/KG):

ACUTE DERMAL LD50 (MG/KG):

ACUTE INHALATION LC50 (MG/L):

OTHER:

Non-irritating to skin (rbt).

AMES TEST:

#### 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: CHEMICAL FATE INFORMATION:

No data at this time

RAT >535 MG/L (4HR)

MOR 001176

PRODUCT: RTV102

## SILICONE RUBBER SEALANT

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No data at this time

### 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations.

#### 14. TRANSPORT INFORMATION

DOT SHIPPING NAME:
DOT HAZARD CLASS:
DOT LABEL(S):
UN/NA NUMBER:

NONE

NONE

NONE

PLACARDS: IATA:

NONE

NA NA

IMO IMDG-code:

NONE

EUROPEAN CLASS: RID (OCTI):

NONE NONE

ADR (ECE): RAR (IATA):

NONE

### 15. REGULATORY INFORMATION

SARA SECTION 302:

None Found

SARA (311,312) HAZARD CLASS:

ACUTE HEALTH HAZARD

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION:

WHMIS HAZARD CLASS:

D2B TOXIC MATERIALS

WHMIS TRADE SECRET:

None

**EXPORT:** 

SCHOLE B/HTSUS:

3910.00

1C96G

NA

ECCN: HAZARD RATING SYSTEMS

> HMIS NFPA

FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2 FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2

CALIFORNIA PROPOSITION 65:

NONE

#### 16. OTHER INFORMATION

MOR 001177

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

This product or its components are on the Australian inventory

COUTTURED OF HEAT DAGE AND

IFRUDUCI. MITIUE

C = ceiling limit EST= estimated

NEGL = negligible NF = none found

NA = not applicable NE = none established

UNKN = unknown REC = recommended

ND = none determined

= recomm. By vendor SKN = skin

By-product = reaction byproduct, TSCA inventory

TS = trade secret

status not required under

= recommended

40 CFR part 720.30(h-2)

MST = mist

STEL = short term exposure NT = not tested

limit

DATE PRINTED: 07/04/94

\*\*\* END OF MSDS \*\*\*

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MANUFACTURED BY:

EMERGENCY TELEPHONE:

GENERAL ELECTRIC CO. SILICONE PRODUCTS DIV WATERFORD, NY 12188 (518) 237-3330 (24 HRS)

SUPPLIED BY:

GENERAL ELECTRIC CO. SILICONE PRODUCTS DIV WATERFORD, NY 12188 (518) 237-3330 (24 HRS)

REVISED: 08/14/88

PREPARER: DA POLSINELLI

\* I PRODUCT IDENTIFICATION \*

\*\*\*

PRODUCT IDENTIFICATION: RTV103

CHEMICAL FAMILY

SILICONE RUBBER SEALANT

CHEMICAL NAME: RTV SILICONE RUBBER SEALANT

FORMULA: MIXTURE

\*\*\* II PRODUCT COMPONENTS \*\*\*

APPROX. ACGIH OSHA CAS REG WGT. PRODUCT COMPOSITION ł TLV PEL UNITS NO. A. HAZARDOUS **METHYLTRIACETOXYSILANE** 1-5 10(R) 10(R) PPM 4253-34-3 \* B. NON-HAZARDOUS

FORMULATION INFORMATION:

THIS SPACE RESERVED FOR SPECIAL USE.

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### \*\*\* III PHYSICAL DATA

\*\*PRODUCT INFORMATION

: NA BOILING POINT (F) NA (C) \* VOLATILE BY VOLUME:<5 VAPOR PRESSURE(20 C): UNKN MM HG EVAPORATION RATE : NEGL. (BUTYL ACETATE=1)

VAPOR DENSITY(AIR=1): UNKN

: NA (F) NA (C) SPECIFIC GRAVITY FREEZING POINT :1.02

MELTING POINT : NA (F) NA (C) (WATER=1)

PHYSICAL STATE : SOLID DENSITY :1000.5 KG/M3 : ACETIC ACID ACID/ALKALINITY ODOR :UNKN MEG/G

: BLACK COLOR PH :NA

(PPM) ODOR THRESHOLD : 1.0 SOLUBILITY IN WATER (20C): INSOLUBLE

SOLUBILITY IN ORGANIC SOLVENT: SLIGHTLY SOLUBLE IN TOLUENE

(STATE SOLVENT)

IV FIRE AND EXPLOSITION DATA

(C) BY NA IGNITION TEMP: UNK (F) UNK (C) (F) NA FLASH PT: NA FLAMMABLE LIMITS IN AIR(%): LOWER UNK UPPER UNK

SENSITIVITY TO MECHANICAL IMPACT (Y/N): N

SENSITIVITY TO STATIC DISCHARGE:

SENSITIVITY TO STATIC DISCHARGE IS NOT EXPECTED.

TINGUISHING MEDIA:

ALL STANDARD FIREFIGHTING MEDIA

CIAL FIREFIGHTING PROCEDURES:

NONE KNOWN.

V REACTIVITY DATA

STABILITY:

HAZARDOUS:

POLYMERIZATION WILL NOT OCCUR X STABLE UNSTABLE

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:

SILICON DIOXIDE.

ACETIC ACID.

INCOMPATIBILITY (MATERIALS TO AVOID):

NONE KNOWN.

CONDITIONS TO AVOID:

NONE KNOWN.

VI HEALTH HAZARD DATA

ACUTE SIGNS/EFFECTS OF OVEREXPOSURE:

INGESTION:

NONE KNOWN

SKIN CONTACT:

UNCURED PRODUCT CONTACT WILL IRRITATE LIPS, GUMS AND TONGUE.

UNCURED PRODUCT CONTACT MAY IRRITATE THE SKIN.

INHALATION:

CAUSES MODERATE RESPIRARTORY IRRITATION.

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CAUSES IRRITATION OF THE MOUTH, NOSE, AND THROAT. APPLIES ONLY IN UNCURED STATE.

EYE CONTACT:

UNCURED PRODUCT CONTACT IRRITATES EYES.

MEDICAL CONDITIONS AGGRAVATED:

NONE KNOWN.

OTHER:

ACETIC ACID RELEASED DURING CURING.

CHRONIC EFFECTS OF OVEREXPOSURE:

NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION:

RINSE MOUTH WITH WATER SEVERAL TIMES.

SKIN:

TO CLEAN FROM SKIN, REMOVE COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE WASHING WITH DETERGENT AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION:

MOVE PERSON TO FRESH AIR.

EYES:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

TO PHYSICIAN: NONE KNOWN.

TOXICITY:

**METHYLTRIACETOXYSILANE** 

ACUTE ORAL LD50: ACUTE DERMAL LD50: 2060 (RAT) NONE FOUND

MG/KG MG/KG

ACUTE INHALATION LC50: OTHER: NONE.

NONE FOUND

AMES TEST:

UNKNOWN

PRINCIPALS ROUTES OF EXPOSURE:

EYES.

INHALATION.

THIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA

PRODUCTS/INGREDIENTS

THIS SPACE RESERVED FOR SPECIAL USE.

PREVENTATIVE MEASURES (SECTIONS VII, VIII, IX)

\*\*\* VII SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:

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USE IN A WELL VENTILATED AREA.

PROTECTIVE GLOVES:

CLOTH GLOVES.

EYE AND FACE PROTECTION:

SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT:

NONE KNOWN.

**VENTILATION:** 

USE ONLY IN WELL VENTILATED AREA.

\*\*\* VIII SPILL, LEAK AND DISPOSAL PROCEDURES \*

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

WIPE, SCRAPE OR SOAK UP IN AN INERT MATERIAL AND PUT IN A CONTAINER FOR DISPOSAL.

WASH WALKING SURFACES WITH DETERGENT AND WATER TO REDUCE SLIP-PING HAZARD.

WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION.

DISPOSAL METHOD:

DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

BURY IN A LICENSED LANDFILL OR BURN IN AN APPROVED INCINERATOR ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

\*\*\* IX SPECIAL PRECAUTIONS \*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH SKIN AND EYES.

CAUTIONI

REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGERTIPS, NAILS AND CUTICLES. RESIDUAL SEALANT MAY REMAIN ON FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE SEVERE EYE IRRITATION.

PRODUCT RELEASES ACETIC ACID DURING APPLICATION AND CURING. USE MECHANICAL VENTILATION TO STAY BELOW TLV OF 10 PPM ACETIC ACID.

UNCURED PRODUCT CONTACT IRRITATES EYES.

UNCURED PRODUCT CONTACT MAY IRRITATE SKIN.

**ENGINEERING CONTROLS:** 

EXHAUST VENTILATION EYEWASH STATIONS.

PAGE: 5 **RTV103** \*\*\* X SHIPPING AND REGULATORY CLASSIFICATION DATA DOT SHIPPING NAME: NONE NONE DOT HAZARD CLASS: NONE DOT LABELS(S): NONE UN/NA NUMBER: PLACARDS: NONE EXPORT: NA NONE EPA HAZARD WASTE: SARA HAZARD CLASS: TO BE DETERMINED WHMIS HAZARD CLASS: D2B TOXIC MATERIALS CPSC CLASSIFICATION: NA TRANSPORTATION CLASS: NONE RID (OCTI) NONE ADR (ECE) NONE RAR (IATA) NONE NFPA/HMIS CLASSIFICATION FLAMMABILITY 0 , REACTIVITY 0 , HEALTH TOULE B: ADDITIONAL INFORMATION: THIS PRODUCT OR ITS COMPONENTS ARE ON THE EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICALS (EINECS)......... THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTENT OF THE INTENDED USE...... THIS PRODUCT OR ITS COMPONENTS ARE ON THE AUSTRALIAN INVENTORY C = CEILING LIMIT NEGL = NEGLIGIBLE NF = NONE FOUND EST= ESTIMATED

> REC = RECOMMENDED NE = NONE ESTABLISHED ND = NONE DETERMINED V = RECOMM. BY VENDOR BY-PRODUCT = REACTION BY- SKN = SKIN PRODUCT, TSCA INVENTORY TS = TRADE SECRET

NA = NOT APPLICABLE

RECEIVED

APR 24 1990

THE MOREY CORP

UNKN = UNKNOWN

PAGE: RTV103

5

\*\*\* X SHIPPING AND REGULATORY CLASSIFICATION DATA \*\*\*

DOT SHIPPING NAME: NONE
DOT HAZARD CLASS: NONE
DOT LABELS(S): NONE
UN/NA NUMBER: NONE

PLACARDS:

EXPORT:

EPA HAZARD WASTE: NONE

SARA HAZARD CLASS:

TO BE DETERMINED

WHMIS HAZARD CLASS:

D2B TOXIC MATERIALS

CPSC CLASSIFICATION: NA

TRANSPORTATION CLASS:

NONE

RID (OCTI) NONE ADR (ECE) NONE RAR (IATA) NONE

NFPA/HMIS CLASSIFICATION FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2

SCOULE B:

ADDITIONAL INFORMATION:

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THIS PRODUCT OR ITS COMPONENTS ARE ON THE AUSTRALIAN INVENTORY (ACOIN)....

C = CEILING LIMIT NEGL = NEGLIGIBLE EST = ESTIMATED NF = NONE FOUND NA = NOT APPLICABLE UNKN = UNKNOWN NE = NONE ESTABLISHED REC = RECOMMENDED

ND = NONE DETERMINED V = RECOMM. BY VENDOR

BY-PRODUCT = REACTION BY- SKN = SKIN

PRODUCT, TSCA INVENTORY TS = TRADE SECRET

8

PAGE: RTV103 6

STATUS NOT REQUIRED UNDER R = RECOMMENDED40 CFR PART 720.30(H-2) MST = MIST

APR 24 1990
THE MOREY CORP

:1.06

G/L

MATERIAL SAFETY DATA SHEET COPYRIGHT GENERAL ELECTRIC CO.

RTV108

MANUFACTURED BY:

EMERGENCY TELEPHONE:

RAL ELECTRIC CO.

(518) 237-3330 (24 HRS)

SILICONE PRODUCTS DIV WATERFORD, NY 12188

SUPPLIED BY:

GENERAL ELECTRIC CO. STUTCONE PRODUCTS DIV WATERFORD, NY 12188

(518) 237-3330 (24 HRS)

REVISED: 05/03/91

PREPARER: GCD

\*\*\* I PRODUCT IDENTIFICATION \*\*\*

PRODUCT IDENTIFICATION: RTV108

CHEMICAL FAMILY

SILICONE RUBBER SEALANT

CHEMICAL NAME: SILICONE RUBBER SEALANT FORMULA: MIXTURE

\*\*\* II PRODUCT COMPONENTS XXX

APPROX. ACGIH 05HA CAS REG WGT. PRODUCT COMPOSITION TLV PEL. UNITS × NO. A. HAZARDOUS METHALTRIACETOXYSTLANE 10 (R) 10 (R) 1-5 PPM 4253-34-3\* 8. NON-HAZARDOUS NΑ DIMETHYL POLYSILOANE SILANNOL/ST 60-60 B4O NAC 70131-67-8¥ 10-30 NF TRADE SECRET COMPONENT NF MA TRADE SECRET COMPONENT 10-30 10 15 M3/M3

FORMULATION INFORMATION:

2HIS SPACE RESERVED FOR SPECIAL USE

\*\*\* III PHYSICAL DATA \*\*\*

BOILING POINT : NA (F) NA (C) X VOLATILE BY VOLUME: (8 EVAPORATION RATE : (1 VAPOR PRESSURE(20 C): NA HM HG VAPOR DENSITY(AIR=1): NA (BUTYL ACETATE=1)

(C) SPECIFIC GRAVITY (WATER=1)

FREEZING POINT : NA (F) NA MELTING POINT : NA F) NA Ci

PHYSICAL STATE : SOLIO DENSITY :1060 KG/M3 : ACETIC ACID ACID/ALKALINITY :NA CO OR MEG/G : TRANSLUCENT : UNK (PPM) COLOR PH :NA

ODOR THRESHOLD VOC (EPA METH, 24) : 65

SOLUBILITY IN WATER (20C): INSOLUBLE

SOLUBILITY IN ORGANIC SOLVENT: TOLUENE

(STATE SOLVENT)

\*\*\* IV FIRE AND EXPLOSION DATA \*\*\*

FLASH PT: NA (F) NA (C) BY NA IGNITION TEMP: UNKN(F) UNKN (C)

FLAHMABLE LIMITS IN AIR(%): LOWER UNKN UPPER UNKN

SENSITIVITY TO MECHANICAL IMPACT (Y/N): N

SENSITIVITY TO STATIC DISCHARGE:

SENSITIVITY TO STATIC DISCHARGE IS NOT EXPECTED.

EXTINGUISHING MEDIA:

ALL STANDARD FIREFIGHTING MEDIA

SPECIAL FIREFIGHTING PROCEDURES:

NONE KNOWN.

\*\*\* V REACTIVITY DATA \*\*\*

STARTLITY:

HAZARDOUS:

X STABLE UNSTABLE POLYMERIZATION WILL NOT OCCUR

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:

SILICON DIOXIDE CARBON DIOXIDE

ACETIC ACID CARBON MONOXIDE

INCOMPATIBILITY (MATERIALS TO AVOID):

NONE KNOWN.

TIONS TO AVOID:

NONE KNOWN.

```
35479/MOREY CORPORATION
 VI HEALTH HAZARD DATA

CUTE SIGNS/EFFECTS OF OVEREXPOSURE:
INGESTION:
 MAY BE HARMFUL IF SWALLDWED.
SKIN CONTACT:
 UNCURED PRODUCT CONTACT WILL IRRITATE LIFS, GUMS AND TONGUE.
 UNCURED PRODUCT CONTACT MAY IRRITATE THE SKIN.
IN . LATION:
 CAUSES MODERATE RESPIRATORY IRRITATION.
 CAUSES IRRITATION OF THE MOUTH/NOSE/AND THROAT.
 APPLIES ONLY IN UNCURED STATE.
EYE CONTACT:
 UNCURED PRODUCT CONTACT IRRITATES EVES.
MEDICAL CONDITIONS AGGRAVATED:
 NONE PINOUN.
```

OTHER:

NONE KNOWN.

CHRONIC EFFECTS OF OVEREXPOSURE:

NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION:

NONE KNOWN.

SKIN:

TO CLEAN FROM SKIN, REMOVE COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE WASHING WITH DETERGENT AND WATER.

INHOLOTION:

HOVE PERSON TO FRESH AIR.

EYES:

OTHER:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

NOTE TO PHYSICIAN:

NONE MYDWN.

TOXICITY: \*\*PRODUCT INFORMATION

ACUTE ORAL LDSO:

25,000 (RAT) MG/KG

ACUTE DERMAL LDSO:

UNINOWN MG71:G

ACUTE INHALATION LC50:

NWOKINU MILDLY IRRITATING TO SKIN (RBT).

AT TEST:

UNENDMN

PR....IPAL ROUTES OF EXPOSURE:

EMES.

INHALATION.

THIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE

IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY

NTP, IARC, OR OSHA PRODUCTS/INGREDIENTS

THIS SPACE RESERVED FOR SPECIAL USE.

PREVENTIVE MEASURES (SECTIONS VII, VIII, IX)

\*\*\* VII SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:

USE IN A WELL VENTILATED AREA.

PROTECTIVE GLOVES:

CLOTH GLOVES.

EYE AND FACE PROTECTION:

SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT:

NONE KNOWN.

VENTILATION:

USE ONLY IN WELL VENTILATED AREA.

\*\*\* VIII SPILL, LEAK AND DISPOSAL PROCEDURES \*\*\*

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

WIPE, SCRAPE OR SOAK UP IN AN INERT MATERIAL AND PUT IN A

CONTAINER FOR DISPOSAL.

WASH WALKING SURFACES WITH DETERGENT AND WATER TO REDUCE SLIP-

PING HAZARD.

WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION.

DISPOSAL METHOD:

DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

> \*\*\* IX SPECIAL PRECAUTIONS \*\*\*

40 EFR PART 720.30(H-2)

STEL = SHORT TERM EXPOSURE LIMIT

```
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
 AVOID CONTACT WITH SKIN AND EVES.
 CAUTION!
 REMOVE CONTACT LENSES BEFORE USING SEALANT, DO NOT HANDLE
 LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGER-
 TIPS, NAILS AND CUTICLES. RESIDUAL SEALANT MAY REMAIN ON
 FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE
 SEVERE EYE IRRITATION.
 PRODUCT RELEASES ACETIC ACID DURING APPLICATION AND CURING,
 USE MECHANICAL VENTILATION TO STAY BELOW TLV OF 10 PPM ACETIC
 ACID.
 UNCURED PRODUCT CONTACT IRRITATES EVES.
 UNCURED PRODUCT CONTACT MAY IRRITATE SKIN.
 USE IN A WELL VENTILATED AREA TO PREVENT IRRITATION BY VAPORS.
ENGINEERING CONTROLS:
 EVEWASH STATIONS.
 *** X SHIPPING AND REGULATORY CLASSIFICATION DATA ***
DOT SHIPPING NAME: NONE
DOT HAZARD CLASS:
 NONE
DOT LABELS(S):
 NONE
UN/NA NUMBER:
 NONE
PLACARDS:
NONE
EXPORT: NA
EPA HAZARD WASTE: NONE
 SARA HAZARD CLASS: ACUTE HEALTH HAZARD
 WHMIS HAZARD CLASS: D28 TOXIC MATERIALS
CFSC CLASSIFICATION: EYE IRRITANT
TRANSPORTATION CLASS:
 NA
 RID (OCTI) NA
 ADR (ECE) NA
 RAR (IATA) NA
NFPA/HMIS CLASSIFICATION
 FLAMMABILITY OF REACTIVITY OF HEALTH
SCHEDULE B: 3910.00.00003
ECCN: 4999G
ADDITIONAL INFORMATION:
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 EXISTING COMMERCIAL CHEMICALS (EINECS).....
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 IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE
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 V = RECOMM. BY VENDOR
 BY-PRODUCT = REACTION BY- SKIN = SKIN
 PRODUCT, TSCA INVENTORY TS = TRADE SECRET STATUS NOT REGUIRED UNDER R = RECOMMENDED
 MST = MIST
```

Per. 6/5/01

MATERIAL SAFETY DATA SHEET

PAGE:

1 DF 5

DATE OF LAST CHANGE: 11/17/00

DATE PRINTED..... 11/17/00

MANUFACTURER'S NAME:

NAZDAR SHAWNEE

8501 HEDGE LANE TERRACE

SHAWNEE KS 66227

USA

EMERGENCY TELEPHONE #:

(800)424-9300

(U.S. and Canada)

(703)527-3887

EMERGENCY TELEPHONE #:

(Outside U.S. and Canada, collect calls are accepted) INFORMATION TELEPHONE #: (800)677-4657

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE .: RE187

TRADE NAME...: SS30 THINNER

- HNIS CODES -

HEAT TH . 3\* FLAMMABILITY - 2 - 0

PRODUCT CLASS: THINNER

REACTIVITY PPE

INK SERIES ...:

SECTION 2 -- COMPOSITION, INFORMATION ON INGREDIENTS

| CHEMICAL NAME:<br>COMMON NAME:<br>CAS NUMBER                                       | PERCENT<br>BY<br>WEIGHT |                    | EXPOSURE LIMITS<br>OSHA<br>PEL | VAPOR<br>PRESSURE<br>IN mmHg | NOTES |
|------------------------------------------------------------------------------------|-------------------------|--------------------|--------------------------------|------------------------------|-------|
| ALIPHATIC DIBASIC ACID ESTERS;<br>DIBASIC ESTER MIXTURE;<br>CAS #: NOT ESTABLISHED | 70                      | NOT<br>ESTABLISHED | NOT<br>ESTABLISHED             | 0.2 @ 20C                    | (1)   |
| CYCLOHEXANONE;<br>PIMELIC KETONE;<br>CAS #: 108-94-1                               | 30                      | 25 ppm<br>Skin     | 25 ррт<br>Skin                 | 2.0 @ 20C                    |       |

Supplier recommended exposure limit of 10 mg/m3.

The recommended permissible exposure limits (PEL) indicated above reflect the levels adopted by OSHA in 1989. Although, some of the 1989 levels have since been vacated, the Nazdar Company recommends that the lower exposure levels be observed as reasonable worker protection.

SECTION 3 -- HAZARDS IDENTIFICATION

GENERAL HEALTH EFFECTS

THE FOLLOWING INFORMATION HAS BEEN DEVELOPED BASED UPON USING THE PRODUCT AS INTENDED BY THE MANUFACTURER. The potential health effects of this product are based on the hazards of its components. The use of this product in combination with other products may produce synergistic (additive) health effects. Cautionary labeling and material safety data sheets of all materials used with this product should be reviewed before use.

**EYES** 

Eye contact with liquid, vapors or mists may cause severe irritation including burning, tearing, redness or swelling and eye damage.

Skin contact may cause irritation. Symptoms may include dryness, chapping and redness. Repeated or prolonged overexposure may cause burns to the skin. This material may be absorbed through the skin. Toxic if absorbed through the skin.

Repeated and prolonged overexposure by inhalation may cause respiratory tract irritation. Symptoms may include central nervous system disorders such as headaches, dizziness, weakness and fatigue.

INGESTION

Ingestion may cause gastrointestinal tract irritation. Symptoms may include headaches, nausea and vomiting. Ingestion may cause vomiting. Aspiration of material into lungs may cause chemical pneumonitis which can be fatal.

CHRONIC EFFECTS/TARGET ORGANS

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

ANIMAL STUDIES

Aliphatic dibasic acid esters (or its components) have been suggested as a cause of the following effects in lab animals, after overexposure, and may aggravate pre-existing disorders of these organs in humans; mild, reversible liver effects, nasal damage. Cyclohexanone has caused liver and kidney damage in animal tests. For animal studies, reference TSCA Section 4 Test Rule Results or contact the manufacturer for further details.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

FIRE AND EXPLOSION HAZARDS

Isolate from heat, electrical equipment, sparks, and open flame. Keep containers tightly closed. Vapors may be heavier than air and can travel to a source of ignition then flash back. Closed containers may explode when exposed to extreme heat.

FIRE FIGHTING EQUIPMENT

Full protective equipment including self-contained breathing apparatus (SCBA) is recommended to protect firefighters.

SPECIAL FIRE FIGHTING PROCEDURES

Water may be ineffective but may be used to cool containers. Fumes released on burning may be toxic and dangerous.

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RELEASE MANAGEMENT HEASURES

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid contact or breathing vapors. Ventilate area. Contain release and remove with inert absorbent. Use non-sparking tools to place material in appropriate container for disposal. The National Response Center (800-424-8802) and local authorities should be contacted for any reportable spill/release.

SECTION 7 -- HANDLING AND STORAGE

HANDLING AND STORAGE METHODS

Use in a well ventilated area. Follow all MSDS/label precautions even after container is emptied; container may retain product residues. Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use. Smoke in designated areas only. Avoid prolonged or repeated overexposure to this product. Keep out of reach of children. Follow label directions carefully. Do not take internally. Harmful or fatal if swallowed. SECTION 8 -- EXPOSURE CONTROLS, PERSONAL PROTECTION

#### RESPIRATORY PROTECTION

If concentrations of hazardous ingredients exceed exposure limits listed in Section 2 an appropriate NIOSH (National Institute for Occupational Safety and Health) approved respirator with an organic vapor cartridge should be used. If material is handled under mist, spray or dust forming conditions, a P100 (99.97% efficiency) filter should be used in addition to the organic vapor cartridge. If no exposure limits are listed in Section 2, follow general safety guidelines in 29 CFR 1910.134 Respiratory Protection or other applicable respiratory standard.

#### SKIN PROTECTION

Use neoprene, nitrile or other gloves resistant to chemicals listed in Section 2. Contact a reputable safety supply company for appropriate gloves. Solvent resistant aprons are recommended. Prevent prolonged skin contact with contaminated clothing.

#### EYE PROTECTION

Use ANSI (American National Standards Institute) approved safety glasses, faceshield or splash proof goggles to prevent eye contact. Contact a reputable safety supply company for appropriate eye protection. The availability of an eye wash is highly recommended.

#### EXPOSURE GUIDELINES

See Section 2 "Composition, Information on Ingredients" for occupational exposure limits.

#### HYGIENIC PRACTICES

Wash with soap and water before eating, smoking or using toilet facilities. Separately wash or discard clothing and footwear before reuse. NEVER try to remove ink from the skin by using solvent or thinner. Such action is likely to increase the possibility of undesirable effects. Remove contaminated clothing to prevent prolonged skin contact.

#### **ENGINEERING CONTROLS**

Use applicable engineering controls, work practices and personal protective equipment to ensure all concentrations are kept below the exposure limits listed in Section 2. Adequate controls should be implemented to ensure employee safety from fine mists which may be produced under some printing conditions.

#### OTHER PROTECTION

No Data Available

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

\*\*

APPEARANCE:

Thin liquid

ODOR:

Characteristic

PHYSICAL STATE:

Liquid

ρH

Not applicable

VAPOR PRESSURE

See Section 2 for individual ingredients.

VAPOR DENSITY

Heavier than air

**BOILING POINT** 

Greater than 300 degrees Fahrenheit

FREEZING POINT

Not available

SOLUBILITY IN WATER

Not tested

EVAPORATION RATE

Slower than ether

PERCENT VOLATILE BY VOLUME: 100.00 %

WEIGHT PER GALLON: 8.71 1bs/gal

VOC: 1044.84 g/L

| PRODUCT              | T CODE:                                 |                        | NAZDAR SHAWNEE                                                                                                                                                                                                                                                                                                                                                                               | PAGE:                                   | 4 OF        |
|----------------------|-----------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|
|                      | 8.71                                    |                        | ••••••                                                                                                                                                                                                                                                                                                                                                                                       |                                         | • • • • • • |
| PHOTOCI<br>No        |                                         | Y REACTI               | VE                                                                                                                                                                                                                                                                                                                                                                                           |                                         |             |
| Per                  | rcent vo                                | latile =               | Percent VOC                                                                                                                                                                                                                                                                                                                                                                                  |                                         |             |
|                      | • • • • • • • • • • • • • • • • • • • • |                        | SECTION 10 STABILITY AND REACTIVITY                                                                                                                                                                                                                                                                                                                                                          |                                         |             |
|                      | L STABI                                 | LITY                   |                                                                                                                                                                                                                                                                                                                                                                                              |                                         |             |
| CONDITI              | IONS TO                                 | AVOID                  | at, ignition sources, sparks and open flame.                                                                                                                                                                                                                                                                                                                                                 |                                         |             |
|                      |                                         |                        | THER MATERIALS . oxidizing/reducing agents and reactive chemicals.                                                                                                                                                                                                                                                                                                                           |                                         |             |
| HAZARDO<br>May       | OUS DECO                                | MPOSITION<br>e hazardo | N PRODUCTS<br>Dus fumes when heated to decomposition e.g. carbon monoxide, carbon dioxide and other noxious                                                                                                                                                                                                                                                                                  | s gases.                                |             |
|                      |                                         | MERIZATIO              |                                                                                                                                                                                                                                                                                                                                                                                              |                                         |             |
| NOT                  | antici                                  | pated dur              | ing normal printing and storage conditions.                                                                                                                                                                                                                                                                                                                                                  |                                         |             |
|                      |                                         |                        | SECTION 11 TOXICOLOGICAL INFORMATION                                                                                                                                                                                                                                                                                                                                                         |                                         |             |
| Ref                  | er to S                                 | OXICITY Dection 3      | NATA Hazards Identification for additional toxicological data. Experimental toxicity data on cyclogresults: Oral LD50 Rat; 1620 mg/kg: Dermal LD50 Rabbit; 1000 mg/kg: Inhalation TCLO Human; 7                                                                                                                                                                                              | 75 ppm.                                 | e has       |
| •                    | •••••                                   | • • • • • • • •        | SECTION 12 ECOLOGICAL INFORMATION                                                                                                                                                                                                                                                                                                                                                            |                                         |             |
| not<br>ENVIRON       | ause the<br>be dis                      | posed of               | t may be a mixture of chemicals, some of which may be ecologically toxic, it is strongly sugginto the environment, i.e. soil, water courses, lakes, landfills, sewers, etc.                                                                                                                                                                                                                  |                                         |             |
| •••••                |                                         |                        | SECTION 13 DISPOSAL CONSIDERATIONS                                                                                                                                                                                                                                                                                                                                                           |                                         |             |
| •••••                |                                         | • • • • • • • • •      |                                                                                                                                                                                                                                                                                                                                                                                              | • • • • • • • • • • • • • • • • • • • • | •••••       |
| ret                  | pose of<br>ain haza                     | in accor               | dance with applicable local, county, state, provincial and federal regulations. Emptied cont operties. Empty containers should be disposed of in an environmentally safe manner in accord ons.                                                                                                                                                                                               | ainers ma<br>ance with                  | y           |
| •••••                |                                         |                        | SECTION 14 TRANSPORT INFORMATION                                                                                                                                                                                                                                                                                                                                                             | •••••                                   | •••••       |
|                      | •••••                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                              |                                         | •••••       |
| rec                  | Proper<br>lassifie                      | Shipping d as a c      | Description: Paint Related Material, 3, UN1263, PG III. In the U.S. and Canada, this mater ombustible liquid and is not regulated, via surface transportation, in containers less than 1 CFR 173.150(f)] [per Transportation of Dangerous Goods Regulations Part 2.23.2(1)].                                                                                                                 | ial may b<br>19 gallon                  | e<br>s or   |
|                      |                                         | • • • • • • • •        | SECTION 15 REGULATORY INFORMATION                                                                                                                                                                                                                                                                                                                                                            | •••••                                   |             |
| CADA TT              | TIE 111                                 | 212 THEM               |                                                                                                                                                                                                                                                                                                                                                                                              | ••••••                                  |             |
|                      |                                         | 313 INFO<br>2 "Comp    | osition, Information on Ingredients" for applicable chemicals.                                                                                                                                                                                                                                                                                                                               |                                         |             |
| All                  | Ingredi                                 | ents in                | L ACT STATUS<br>Section 2 are listed on the U.S. Environmental Protection Agency's Toxic Substances Control ,<br>anadian Domestic Substance List.                                                                                                                                                                                                                                            | Act (TSCA                               | )           |
| OCCU<br>Haza<br>Z400 | JPATION<br>ard Comm<br>0.1-1993         | munication<br>format.  | ATION  and HEALTH ADMINISTRATION (OSHA) - MSDS is compliant with Occupational Safety and Health Adm  standard - 29 CFR 1910.1200. AMERICAN NATIONAL STANDARDS INSTITUTE - This MSDS follows the  MORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS) - This product has been classified  teria of the Controlled Products Regulations (CPR) and the MSDS contains all the information of | ANSI<br>in accord                       | ance        |

WHMIS CLASSIFICATION (CANADA):

No Data Available

SECTION 16 -- OTHER INFORMATION

#### DISCLOSURE

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind express or implied is made with respect to the information contained herein. The data in this MSDS relates only to the specific material designated herein and does not apply to use in combination with any other material or process.

#### DEFINITIONS

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CEILING: (TLV-Ceiling and PEL Ceiling Limit) The ceiling exposure limit or concentration not to be exceeded for even brief times.

DOT: Department of Transportation

HMIS: The Hazardous Materials Identification System (HMIS) developed by the National Paint and Coatings Association (NPCA) to provide information on the acute health hazards, reactivity and flammability of products encountered in the workplace at room temperatures.

HMIS codes assigned for this product are only suggested ratings based on anticipated normal screen printing applications. The employer has the ultimate responsibility for assigning these ratings and should fully evaluate the MSDS, work practices and environmental conditions prior to assigning the appropriate ratings.

HMIS Personal Protection Index of "X-Ask your supervisor" is given on this MSDS due to varying work conditions which may dictate different levels of protection. Please review this MSDS before determining appropriate protective equipment and beginning work.

IARC: International Agency for Research on Cancer

NFPA: National Fire Protection Association

NTP: National Toxicology Program

STEL: Short-Term Exposure Limit: ACGIH terminology for the short-term exposure limit or maximum concentration for a continuous exposure period of 15 minutes.

TLV: Threshold Limit Value. A term ACGIH uses to express the airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

TWA: Time-Weighted Average

VOC: Volatile Organic Compound

7mc 1248791

56479 MOREY CORP.

2659 WISCONSIN AVE. DOWNERS GROVE , IL 60515

ELECTRICAL INSULATION SUPPLIERS Bldg 100, Ste 400 3715 Northside Parkway, NW Northcreek Office Park ATLANTA, GA 30327

PHONE # (404)487-3613 Shannon Schoper (404)487-3612 Dave Sharpe (404)609-6084

MATERIAL SAFETY DATA SHEET INFORMATION:

PLEASE FIND ENCLOSED MATERIAL SAFETY DATA SHEETS (MSDS) COVERING ITEMS PURCHASED FROM ELECTRICAL INSULATION SUPPLIERS (EIS). OSHA REGULATIONS REQUIRE MSDS INFORMATION BE MADE AVAILABLE TO ALL PERSONNEL WHO MAY BE EXPOSED TO HAZARDOUS MATERIALS IN THE WORK PLACE.

UNDER THE "EMERGENCY PLANNING COMMUNITY RIGHT-TO-KNOW ACT OF 1986" INVENTORY AND LOCATION INFORMATION, CONCERNING HAZARDOUS MATERIALS MFG JOB SITE, MAY NEED TO BE REPORTED TO THE LOCAL FIRE DEPARTMENT, THE LOCAL EMERGENCY PLANNING COMMITTEE AND THE STANDARD RESPONSE COMMISSION. YOU MAY WANT TO REFERENCE 40 CFR PART 372 FOR ADDITIONAL INFORMATION. MANUFACTURERS MUST REPORT ANNUAL RELEASES OF LISTED TOXIC CHEMICALS INTO THE ENVIRONMENT, ACCORDING TO SARA TITLE III.

ACCORDING TO 29 CFR PART 1910.1200 PARAGRAPH (g)(6) OF THE HAZARD COMMUNICATION STANDARD, A MSDS IS TO BE PROVIDED THE FIRST TIME THE CUSTOMER BUYS AN ITEM REQUIRING A MSDS. IF AT ANY TIME THE MSDS IS UPDATED OR CHANGED, THE UPDATED MSDS MUST BE SUPPLIED WITH THE FIRST SHIPMENT AFTER THE MSDS UPDATE HAS OCCURRED.

IF YOU NEED FURTHER INFORMATION CONCERNING YOUR SITUATION, YOU MAY CONTACT THE EPA IN WASHINGTON, D.C. THEIR TOLL FREE NO. IS (800)535-0202; THE RCRA/SUPERFUND HOT LINE IS (800)424-9346 OR (703)920-9810; THE TSCA HOT LINE IS (202)554-1404.

BY PROVIDING THIS DOCUMENTATION, EIS IS COMPLYING WITH FEDERAL LAWS GOVERNING MSDS INFORMATION, AS IS KNOWN TO US. THIS IS A SERVICE AIMED AT HELPING YOUR BUSINESS TO ALSO COMPLY WITH GOVERNMENT REGULATIONS.

DAVE SHARPE

"SEE THE REVERSE SIDE FOR DOCUMENT NAME AND P.O. NUMBER"

56479/MOREY CORP.

SHIP

BLR240

MSDS DOCUMENT GE133 DATE CUSTOMER PURCHASE ORDER NUMBER 07/21/99 110113

GE133 07/21/99 11011

GE SILICONES

FORMAT: USA

MATERIAL SAFETY DATA SHEET COPYRIGHT GENERAL ELECTRIC CO.

PRODUCT: REV133

STETCORE SEALAND

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY: GE SILICONES . 260 HUDSON RIVER ROAD WATERFORD, CT. 12188 SUPPLIED BY: GE SILICONES 260 HUDSON RIVER ROAD WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

EMERGENCY PHONE (24 HRS)

(518) 237-3330

(518) 237-3330

REVISED: 06/10/98 PREPARER: CE HANNIGAN

CHEMICAL FAMILY/USE: SILICONE RUBBER

FORMULA:

MIXTURE

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| PRODUCT COMPOSITION/<br>CAS REG NO. | APPROX.<br>WGT. % | ACGIH<br>TWA | TLV<br>STEL | OSHA<br>TWA | PEL<br>STEL | UNITS    |
|-------------------------------------|-------------------|--------------|-------------|-------------|-------------|----------|
|                                     |                   |              |             |             |             |          |
| A. HAZARDOUS                        |                   |              |             |             |             |          |
| TIANIUM, BIS(ETHYL ACETO            | ACETATO) -        |              |             |             |             |          |
| DIISOPROPOXY-                       |                   |              |             |             |             |          |
| 27858-32-8                          | 1 - 5             | NE           | NA          | NE          | NA          | NA       |
| METHYLTRIMETHOXYSILANE              |                   |              |             |             |             |          |
| 1185-55-3                           | 1 - 5             | NA           | NE          | NA          | NE          | NA       |
| B. NON-HAZARDOUS                    |                   |              |             |             |             |          |
| VINYLSTOPPED PHENYLMETHY            | L POLYMER         |              |             |             |             |          |
| 68951-96-2                          | 5 - 10            | NA           | NE          | NA          | NE          | NA       |
| DIMETHY POLYSILOVANE ST             | ANOL/ST           |              |             |             |             |          |
| 70131-67-8                          | 30-60             | NA           | NE          | NA          | NE          | NA       |
| D4 & HMDZ TREATED SILICO            | N DIOXIDE         |              |             |             |             |          |
| 68937-51-9                          | 10-30             | 10           | NE          | 15          | NE          | MG/M3    |
| QUARTZ                              |                   | . •          |             |             |             |          |
| 14808-60-7                          | 10-30             | 0.1          | NE          | 0.1         | NE          | MG/M3    |
| 14000-00-7                          | 10.30             | , 0.1        |             | •••         |             | 5 / 1110 |

SEE SECTION 15 FOR DESCRIPTION OF ANY WHMIS TRADE SECRET(S).

#### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This section not in use

POTENTIAL HEALTH EFFECTS:

INGESTION:

MAY BE harmful if swallowed.

SKIN CONTACT:

UNCURED PRODUCT WILL IRRITATE LIPS, GUMS AND TONGUE.

UNCURED PRODUCT CONTACT MAY IRRITATE THE SKIN.

INHALATION:

CAUSES MILD RESPIRATORY IRRITATION.

APPLIES ONLY IN UNCURED STATE.

EYE CONTACT:

UNCURED PRODUCT CONTACT IRRITATES EYES.

MEDICAL CONDITIONS AGGRAVATED:

NONE KNOWN.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

NONE KNOWN.

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by

NTP, IARC, OF OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Eves.

DERMAL-SKIN

OTHER:

METHANOL RELEASED DURING CURING. THIS PRODUCT CONTAINS METHYL-POLYSILOXANES WHICH CAN GENERATE FORMALDEHYDE AT APPROXIMATELY 300 DEGREES FARENHEIT (150°C) AND ABOVE, IN ATMOSPHERES WHICH CONTAIN OXYGEN. FORMALDEHYDE IS A SKIN AND RESPIRATORY SENSITIZER, EYE AND THROAT IRRITANT, ACUTE TOXICANT, AND POTENTIAL CANCER HAZARD. AN MSDS FOR FORMALDEHYDE IS AVAILABLE FROM GE SILICONES.

#### 4. FIRST AID MEASURES

#### INGESTION:

RINSE MOUTH WITH WATER SEVERAL TIMES.

SKIN:

TO CLEAN FROM SKIN, REMOVE COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE WASHING WITH DETERGENT AND WATER. GET MEDICAL ATTN. IF IRRITATION PERSISTS.

INHALATION:

MOVE PERSON TO FRESH AIR.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention IF IRRITATION PERSISTS.

NOTE TO PHYSICIAN:

None Known.

#### 5. FIRE FIGHTING MEASURES

FLASH POINT: (C) NA (F) METHOD NA IGNTIION TEMP NA (C) NA (F) FLAMMABLE LIMITS IN AIR - LOWER(%): NA FLAMMABLE LIMITS IN AIR . UPPER(%): NA SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is NOT EXPECTED. EXTINGUISHING MEDIA:

All standard firefighting media.

SPECIAL FIREFIGHTING PROCEDURES:

NONE KNOWN.

#### 6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a container for disposal.

WASH WALKING SURFACES WITH DETERGENT AND WATER TO REDUCE SLIPPING HAZARD. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION.

#### 7. HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID CONTACT WITH SKIN AND EYES. CAUTION! COMBUSTIBLE. REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGERTIPS, NAILS AND CUTICLES. RESIDUAL SEALANT MAY REMAIN ON FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE SEVERE EYE IRRITATION. PRODUCT RELEASES METHANOL DURING APPLICATION AND CURING. (METHANOL TLV=200 PPM). UNCURED PRODUCT CONTACT IRRITATES EYES. UNCURED PRODUCT CONTACT MAY IRRITATE SKIN.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 56479/MOREY CORP.



```
ENGINEERING CONTROLS:

Eyewash stations.

Use in a well ventilated area.

RESPIRATORY PROTECTION:

USE IN A WELL VENTILATED AREA.

PROTECTIVE GLOVES:

CLOTH GLOVES.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

NONE KNOWN.

VENTILATION:

Use only in well ventilated area.
```

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

```
PRODUCT INFORMATION:
BOILING POINT
 NA
 (C)
 NA
 (F)
VAPOR PRESSURE (20C) (MMHG)
 NEG.
VAPOR DENSITY (AIR=1)
 NEG.
FREEZING POINT
 NA
 (C)
 NA
 (F)
MELTING POINT
 NA
 (C)
 NA
 (F)
PHYSICAL STATE
 SOLID
ODOR
 SWEET
COLOR
 BLACK
ODOR THRESHOLD (PPH)
 UNK
% VOLATILE BY VOLUME
 <4.9
EVAP.RATE (BUTYL ACETATE=1)
 < 1
SPECIFIC GRAVITY (WATER=1)
 1.23
DENSITY (KG/M3)
 1230
ACID/ALKALINITY (MEQ/G)
 UNK
PH
 NA
VOC (EPA HETH. 24) (G/L)
 < 50
SOLUBILITY IN WATER (20C)
 NEG
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): SLIGHT IN TOLUENE
```

#### 10. STABILITY AND REACTIVITY

```
STABLE
HAZARDOUS POLYHERIZATION: WILL NOT OCCUR
HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:
Carbon monoxide.
Carbon dioxide.
Silicon dioxide.
METHANOL.
FORMALDEHYDE
INCOMPATIBILITY (MATERIALS TO AVOID):
NONE KNOWN.
CONDITIONS TO AVOID:
NONE KNOWN.
```

#### 11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION

ACUTE ORAL LD50 (MG/KG):

ACUTE DERMAL LD50 (MG/KG):

NA

ACUTE INALATION LC50 (MG/L):

NA

OTHER:

None.

AMES TEST:

UNKNOWN

#### 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data at this time CHEMICAL FATE INFORMATION: No data at this time

#### 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

/GE133

Disposal should be made in accordance with federal, state and local regulations.

#### 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: DOT HAZARD CLASS: NOT DOT REGULATED DOT LABEL(S): NA UN/NA NUMBER: NA PLACARDS: NONE IATA: NA . INO IMDG-CODE: EUROPEAN CLASS: RID (OCTI): NA -ADR (ECE): NΔ

NA

15. REGULATORY INFORMATION

SARA SECTION 302:
None Found
SARA (311, 312) HAZARD CLASS:
ACUTE HEALTH HAZARD
SARA (313) CHEMICALS:
NONE
CPSC CLASSIFICATION: NA
WHMIS HAZARD CLASS:
D2B TOXIC MATERIALS
WHMIS TRADE SECRET:
NONE
EXPORT:

RAR (IATA):

SCHDLE B/HTSUS: ECCN: 3910.00 SILICONES IN PRIMARY FORM.

HAZARD RATING SYSTEMS EAR99

HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 22
NFPA FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 22

CALIFORNIA PROPOSITION 65:

NONE

#### 16. OTHER INFORMATION

THIS PRODUCT OR ITS COMPONENTS ARE ON THE AUSTRALLIAN INVENTORY (ACDIN).....

NEGL = NEGLIGIBLE C = CEILING LIMIT EST= ESTIMATED NF = NONE FOUND NA = NOT APPLICABLE UNKN = UNKNOWN NE = NONE ESTABLISHED REC = RECOMMENDED ND = NONE DETERMINED V = RECOMM, BY VENDOR BY-PRODUCT = REACTION BY-SKIN = SKIN TS = TRADE SECRET PRODUCT, TSCA INVENTORY STATUS NOT REQUIRED UNDER R = RECOMMENDED 40 CFR PART 720.30 (H-2) MST = MIST

STEL = SHORT LIMIT EXPOSURE LIMIT NT = NOT TESTED

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MANUFACTURED BY:

APR 24 1990

EMERGENCY TELEPHONE:

GENERAL ELECTRIC CO. THE MOREY CORP (518) 237-3330 (24 HRS)

SILICONE PRODUCTS DIV

WATERFORD, NY 12188

SUPPLIED BY:

GENERAL ELECTRIC CO. SILICONE PRODUCTS DIV WATERFORD, NY 12188

(518) 237-3330 (24 HRS)

REVISED: 04/07/87

PREPARER: DA POLSINELLI

I PRODUCT IDENTIFICATION \*\*\*

PRODUCT IDENTIFICATION: RTV160

CHEMICAL FAMILY

SILICONE RUBBER SEALANT

CHEMICAL NAME: POLYDIMETHYLSILOXANE SEALANT FORMULA: MIXTURE

#### \*\*\* II PRODUCT COMPONENTS

|                                                                             | APPROX.<br>WGT. | ACGIH    | OSHA     |          | CAS REG    |
|-----------------------------------------------------------------------------|-----------------|----------|----------|----------|------------|
| PRODUCT COMPOSITION                                                         | \$              | TLV      | PEL      | UNITS    | NO.        |
| A. HAZARDOUS METHYLTRIMETHOXYSILANE TRADE SECRET COMPONENT B. NON-HAZARDOUS | 1-5<br>1-5      | NF<br>NF | NF<br>NF | NA<br>NA | 1185-55-3* |

#### FORMULATION INFORMATION:

A TRADE SECRET COMPONENT ABOVE IS A TRANSITION METAL OXYGEN ESTER. A CANADIAN WHMIS REGISTRY NUMBER HAS BEEN APPLIED FOR.

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#### \*\*\* III PHYSICAL DATA \*\*\*

PRODUCT INFORMATION

ILING POINT : >200 (F) >93 (C) \$ VOLATILE BY VOLUME:<4
POR PRESSURE(20 C): UNKN MM HG EVAPORATION RATE :<1
POR DENSITY(AIR=1): UNKN (BUTYL ACETATE=1)

EEZING POINT : NA (F) NA (C) SPECIFIC GRAVITY :1.04

LTING POINT : NA (F) NA (C) (WATER=1)

YSICAL STATE : LIQUID DENSITY :1040 KG/M3
OR : MILD ACID/ALKALINITY :UNKN MEG/G
>LOR : WHITE PH :NA

COR : WHITE PH
OR THRESHOLD : UNK (PPM)

OR THRESHOLD : UNK (PPM)
DLUBILITY IN WATER(20C): NEGL.

DLUBILITY IN ORGANIC SOLVENT: PARTIALLY IN TOLUENE

STATE SOLVENT)

\*\*\* IV FIRE AND EXPLOSITION DATA \*\*\*

LASH PT: 110 (F) 43 (C) BY PMCC. IGNITION TEMP: UNKN(F) UNKN (C)

LAMMABLE LIMITS IN AIR(%): LOWER UNKN UPPER UNKN

ENSITIVITY TO MECHANICAL IMPACT (Y/N): N

ENSITIVITY TO STATIC DISCHARGE:

SENSITIVITY TO STATIC DISCHARGE IS EXPECTED; MATERIAL HAS A

FLASH POINT BELOW 200 F.

XTINGUISHING MEDIA:

ALL STANDARD FIREFIGHTING MEDIA

PECIAL FIREFIGHTING PROCEDURES:

COMBUSTIBLE.

### \*\*\* V REACTIVITY DATA \*\*\*

TABILITY:

HAZARDOUS:

X STABLE UNSTABLE POLYMERIZATION WILL NOT OCCUR

LAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS:

CARBON MONOXIDE. CARBON DIOXIDE.

SILICON DIOXIDE.

METHANOL.

INCOMPATIBILITY (MATERIALS TO AVOID):

NONE KNOWN.

CONDITIONS TO AVOID:

NONE KNOWN.

\*\*\* VI HEALTH HAZARD DATA \*\*\*

ACUTE SIGNS/EFFECTS OF OVEREXPOSURE:

INGESTION:

NONE KNOWN

SKIN CONTACT:

SKIN IRRITATION IS NOT EXPECTED, BUT MAY OCCUR IN CERTAIN

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SENSITIVE INDIVIDUALS.

INHALATION:

CAUSES MILD RESPIRATORY IRRITATION.

APPLIES ONLY IN UNCURED STATE.

EYE CONTACT:

UNCURED PRODUCT CONTACT IRRITATES EYES.

MEDICAL CONDITIONS AGGRAVATED:

RESPIRATORY

OTHER:

METHANOL RELEASED DURING CURING.

CHRONIC EFFECTS OF OVEREXPOSURE:

NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION:

NONE KNOWN.

SKIN:

TO CLEAN FROM SKIN, REMOVE COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE WASHING WITH DETERGENT AND WATER.

INHALATION:

MOVE PERSON TO FRESH AIR.

EYES:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

NOTE TO PHYSICIAN: NONE KNOWN.

TOXICITY:

**METHYLTRIMETHOXYSILANE** 

ACUTE ORAL LD50: ACUTE DERMAL LD50: 12,500 (RAT) MG/KG NONE FOUND MG/KG

ACUTE INHALATION LC50:

NONE FOUND

OTHER:

NONE.

AMES TEST:

UNKNOWN

TOXICITY:

TRADE SECRET COMPONENT

ACUTE ORAL LD50:

NONE FOUND MG/KG NONE FOUND MG/KG

ACUTE DERMAL LD50: ACUTE INHALATION LC50:

NONE FOUND

OTHER:

NONE.

AMES TEST:

UNKNOWN

PRINCIPALS ROUTES OF EXPOSURE:

EYES.

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IIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT 0.1% OR MORE NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY IP, IARC, OR OSHA RODUCTS/INGREDIENTS

THIS SPACE RESERVED FOR SPECIAL USE.

PREVENTATIVE MEASURES (SECTIONS VII, VIII, IX)

\*\*\* VII SPECIAL PROTECTIVE EQUIPMENT \*\*\*

**ESPIRATORY PROTECTION:** 

USE IN A WELL VENTILATED AREA.

ROTECTIVE GLOVES:

CLOTH GLOVES.

YE AND FACE PROTECTION:

SAFETY GLASSES.

THER PROTECTIVE EQUIPMENT:

NONE KNOWN.

ENTILATION:

USE ONLY IN WELL VENTILATED AREA.

\*\*\* VIII SPILL, LEAK AND DISPOSAL PROCEDURES \*\*\*
ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

WIPE, SCRAPE OR SOAK UP IN AN INERT MATERIAL AND PUT IN A CONTAINER FOR DISPOSAL.

WASH WALKING SURFACES WITH DETERGENT AND WATER TO REDUCE SLIP-PING HAZARD.

WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION.

DISPOSAL METHOD:

DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

BURY IN A LICENSED LANDFILL OR BURN IN AN APPROVED INCINERATOR ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

\*\*\* IX SPECIAL PRECAUTIONS \*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID CONTACT WITH SKIN AND EYES.

USE ONLY IN A WELL VENTILATED AREA.

CAUTION! COMBUSTIBLE.

REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGER-TIPS, NAILS AND CUTICLES. RESIDUAL SEALANT MAY REMAIN ON FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE SEVERE EYE IRRITATION.

PRODUCT RELEASES METHANOL DURING APPLICATION AND CURING. UNCURED PRODUCT CONTACT IRRITATES EYES.

ENGINEERING CONTROLS:

#### MATERIAL SAFETY DATA SHEET COPYRIGHT GENERAL ELECTRIC CO.

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EYEWASH STATIONS. LOCALIZED VENTILATION SHOULD BE USED TO CONTROL DUST LEVELS.

X SHIPPING AND REGULATORY CLASSIFICATION DATA

DOT SHIPPING NAME: COMBUSTIBLE LIQUID NOS (CONTAINS METHYLTRIMETHOXYSILANE)

DOT HAZARD CLASS: COMBUSTIBLE LIQUID

DOT LABELS(S):

NONE

UN/NA NUMBER:

NA1993

PLACARDS:

• • • •

COMBUSTIBLE FOR BULK SHIPMENTS

EXPORT:

FLAMMABLE LIQUID NOS (CONTAINS METHYLTRIMETHOXYSILANE), CLASS 3.3, FLAMMABLE LIQUID, UN1993, PACKAGING GROUP 3.

EPA HAZARD WASTE:

DO01

SARA HAZARD CLASS:

TO BE DETERMINED

WHMIS HAZARD CLASS:

**B3** COMBUSTIBLE LIQUIDS

D2B TOXIC MATERIALS

C' : CLASSIFICATION: COMBUSTIBLE LIQUID

THANSPORTATION CLASS:

3.3 RID (OCTI) FLAMMABLE LIQUID

ADR (ECE) FLAMMABLE LIQUID

RAR (IATA) FLAMMABLE LIQUID

NFPA/HMIS CLASSIFICATION FLAMMABILITY 2 , REACTIVITY 0 , HEALTH 2

SCHEDULE B:

ECCN:

#### ADDITIONAL INFORMATION:

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTENT OF THE INTENDED USE.....

THIS PRODUCT OR ITS COMPONENTS ARE ON THE AUSTRALIAN INVENTORY 

C = CEILING LIMIT

NEGL = NEGLIGIBLE

EST= ESTIMATED

NF = NONE FOUND

NA = NOT APPLICABLE

NE = NONE ESTABLISHED

UNKN = UNKNOWN

REC = RECOMMENDED

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ND = NONE DETERMINED V = RECOMM. BY VENDOR

BY-PRODUCT = REACTION BY- SKN = SKIN

PRODUCT, TSCA INVENTORY TS = TRADE SECRET STATUS NOT REQUIRED UNDER R = RECOMMENDED

40 CFR PART 720.30(H-2) MST = MIST

FORMAT: USA

MATERIAL SAFETY DATA SHEET COPYRIGHT GENERAL ELECTRIC CO.

PRODUCT: RIV162

POLYDIMETHYLSILOXANE SEALANT PAGE: 001

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:

SUPPLIED BY:

GE SILICONES

GE SILICONES

260 HUDSON RIVER ROAD

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

EMERGENCY PHONE (24 HRS)

(518) 237-3330

(518) 237-3330

REVISED:

10/25/95

REVISED: 10/25/95 PREPARER: DA POLSINELLI

CHEMICAL FAMILY/USE: SILICONE RUBBER

FORMULA:

MIXTURE

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| PRODUCT COMPOSITION/<br>CAS REG NO. | APPROX.<br>WGT. % | ACGI<br>TWA | H TLV<br>STEL | osha<br>Twa | PEL<br>STEL | UNITS |
|-------------------------------------|-------------------|-------------|---------------|-------------|-------------|-------|
| A. HAZARDOUS                        |                   |             |               |             |             |       |
| METHYLTRIMETHOXYSILANE              |                   |             |               |             |             |       |
| 1185-55-3                           | 1-5               | 200(R)      | NE            | 200 (R)     | NE          | PPM   |
| 1,3,5-TRIS (TRIMETHOXYS             | ILYLPROP          | YL) –       |               |             |             |       |
| -ISOCYANURATE                       |                   |             |               |             |             |       |
| 26115-70-8                          | 1-5               | NF          | NE            | NF          | NE          | NA    |
| B. NON-HAZARDOUS                    |                   |             |               |             |             |       |
| DIMETHYLPOLYSILOXANES               |                   |             |               |             |             |       |
| 63148-62-9                          | 5-10              | NA          | NE            | NA          | NE          | NA    |
| TRADE SECRET COMPONENT              |                   |             |               |             |             |       |
|                                     | 10-30             | 10          | NE            | 15          | NE          | MG/M3 |
| DIMETHYL POLYSILOXANE               | SILANOL/          | ST          |               |             |             |       |
| 70131-67-8                          | 60-80             | NA          | NE            | NA          | NE          | NA    |

See Section 15 for description of any WHMIS Trade Secret(s).

#### HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This section not in use POTENTIAL HEALTH EFFECTS:

INGESTION:

May be harmful if swallowed.

المناسل المناسلات

NOV 17 1995

THE MOREY CORP.

\*\*\* CONTINUED ON NEXT PAGE \*\*\*

PRODUCT: RIV162

POLYDIMETHYLSILOXANE SEALANT

PAGE: 002

SKIN CONTACT:

Uncured product contact will irritate lips, gums and tongue.

May cause mild skin irritation.

INHALATION:

Causes mild respiratory irritation.

Applies only in uncured state.

EYE CONTACT:

Uncured product contact irritates eyes.

MEDICAL CONDITIONS AGGRAVATED:

None known.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

None known.

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Eyes.

OTHER:

This product contains Methylpolysiloxanes which can generate Formaldehyde at approximately 300 degrees farenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. An MSDS for Formaldehyde is available from GE Silicones.

Product releases methanol (1-3% by weight) during cure process.

#### 4 FIRST AID MEASURES

#### INGESTION:

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

SKIN:

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.

INHALATION:

Move person to fresh air.

EYES

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTE TO PHYSICIAN:

None known.

\*\*\* CONTINUED ON NEXT PAGE \*\*\*

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THE MOREY CORP.

#### 5. FIRE FIGHTING MEASURES

(C) NA FLASH POINT: NA (F) METHOD NA

IGNITION TEMP NA (C) NA (F)

FLAMMABLE LIMITS IN AIR - LOWER (%): NA FLAMMABLE LIMITS IN AIR - UPPER (%): NA SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO

SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA:

All standard firefighting media SPECIAL FIREFIGHTING PROCEDURES:

None known.

#### 6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a container for disposal.

Wash walking surfaces with detergent and water to reduce slipping hazard.

Wear proper protective equipment as specified in the protective equipment section.

#### 7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid contact with skin and eyes.

Use only in a well ventilated area.

Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation.

Product releases methanol during application and curing.

(methanol TLV = 200 ppm).

Uncured product contact irritates eyes.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Eyewash stations.

\*\*\* CONTINUED ON NEXT PAGE \*\*\*

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NOV 17 1995

THE MUREY COOP

PRODUCT: RTV162

POLYDIMETHYLSILOXANE SEALANT

PAGE: 004

Use in a well ventilated area.

RESPIRATORY PROTECTION:

Use in a well ventilated area.

PROTECTIVE GLOVES:

Cloth gloves.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

None known.

VENTILATION:

Use only in well ventilated area.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT INFORMATION: BOILING POINT (C) NA (F) VAPOR PRESSURE (20 C) (MM HG): NEG VAPOR DENSITY (AIR=1) NEG NA NA FREEZING POINT (C) NA (F) MELTING POINT (C) NA (F) SOLID PHYSICAL STATE ODOR SWEET COLOR WHITE ODOR THRESHOLD (PPM) : % VOLATILE BY VOLUME : UNK <4 EVAP. RATE (BUTYL ACETATE=1): <1 SPECIFIC GRAVITY (WATER=1) : 1.085 DENSITY (KG/M3) 1085 ACID/ALKALINITY (MEQ/G) : UNK PH NA VOC (EPA METH.24) (G/L) : SOLUBILITY IN WATER (20 C) : INSOLUBLE SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): TOLUENE

\_\_\_\_\_\_

#### 10. STABILITY AND REACTIVITY

STABILITY:

STABLE

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide.

Carbon dioxide.

Silicon dioxide.

Methanol.

Formaldehyde.

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NOV 17 1995

THE MOREY COTO

PRODUCT: RTV162

POLYDIMETHYLSILOXANE SEALANT PAGE: 005

INCOMPATIBILITY (MATERIALS TO AVOID):

None known.

CONDITIONS TO AVOID:

None known.

11. TOXICOLOGICAL INFORMATION

**METHYLTRIMETHOXYSILANE** 

ACUTE ORAL LD50 (MG/KG):

12,500 (RAT)

>10,000 (RBT)

ACUTE DERMAL LD50 (MG/KG):
ACUTE INHALATION LC50 (MG/L):

UNKNOWN

OTHER:

None.

AMES TEST:

1,3,5-TRIS(TRIMETHOXYSILYLPROPYL)-

ACUTE ORAL LD50 (MG/KG):

UNKNOWN

ACUTE DERMAL LD50 (MG/KG):

UNKNOWN

ACUTE INHALATION LC50 (MG/L):

UNKNOWN

OTHER: None.

AMES TEST:

DIMETHYLPOLYSILOXANES

ACUTE ORAL LD50 (MG/KG): >40,000
ACUTE DERMAL LD50 (MG/KG): NONE FOUND
ACUTE INHALATION LC50 (MG/L): >535 MG/L (RAT)

Non-irritating to skin (rbt).

AMES TEST:

TRADE SECRET COMPONENT

ACUTE ORAL LD50 (MG/KG):

3160 (RAT) (EST) UNKNOWN

ACUTE DERMAL LD50 (MG/KG):

ACUTE INHALATION LC50 (MG/L):

UNKNOWN

OTHER:

None.

AMES TEST:

DIMETHYL POLYSILOXANE SILANOL/ST

RAT >40,000 UNKNOWN

ACUTE ORAL LD50 (MG/KG):
ACUTE DERMAL LD50 (MG/KG):

ACUTE INHALATION LC50 (MG/L): RAT >535 MG/L (4HR)

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NOV 17 1995

THE MOREY CORP.

PRUDUCI. RIVIDA

POPIDIMELLIPSITOYANE SEATANI

PAGE: UU6

OTHER:

Non-irritating to skin (rbt).

AMES TEST:

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No data at this time No data at this time

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and

local regulations.

Bury in a licensed landfill or burn in an approved incinerator

according to federal, state, and local regulations.

\_\_\_\_\_\_\_\_ 14. TRANSPORT INFORMATION

DOT SHIPPING NAME:

NONE

DOT HAZARD CLASS:

NONE

DOT LABEL(S):

NONE

UN/NA NUMBER:

NONE

PLACARDS:

NONE

IATA:

NA

NONE

IMO IMDG-code: EUROPEAN CLASS:

NONE

RID (OCTI): ADR (ECE) :

NONE

RAR (IATA):

NONE

15. REGULATORY INFORMATION

SARA SECTION 302:

None Found

SARA (311,312) HAZARD CLASS:

ACUTE HEALTH HAZARD

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION:

NA

WHMIS HAZARD CLASS:

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THE MUREY COPP

PAGE: UU/

D2B TOXIC MATERIALS WHMIS TRADE SECRET: None EXPORT: SCHDLE B/HTSUS: ECCN:

3910.00 Silicones in Primary Form

1C96G

HAZARD RATING SYSTEMS

HMIS **NFPA**  FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2 FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2

CALIFORNIA PROPOSITION 65:

NONE

#### 16. OTHER INFORMATION

This product or its components are on the European inventory of existing commercial chemicals (EINECS)..... 

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.....

This product or its components are on the Australian inventory (ACOIN) 

STEL = short term exposure NT = not tested

limit

DATE PRINTED: 11/16/95

\*\*\* END OF MSDS \*\*\*

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NOV 17 1995

THE MIREY COPD





Prepared October, 24, 1988 Reviewed January 12, 1994

**MSDS NO. 250** 

#### PRODUCT IDENTIFICATION

PRODUCT NAME

CSL 588 Electronic Grade Sealant/Adhesive

CHEMICAL NAME CHEMICAL FORMULA **MOLECULAR WEIGHT**  Not Applicable Silicone Sealant

**Polymer** 

#### HAZARDOUS INGREDIENTS OF MATERIAL 11

|                    | MATERIAL | %    | CAS Number | ACGIH TLV | LD50                     |
|--------------------|----------|------|------------|-----------|--------------------------|
| Amorphous Silica   |          | 5-10 | 7631-86-9  | 5mg/m³ .  | >5000 mg/kg orai/rat     |
| Oximino Silane     |          | 1-5  | 22984-54-9 | Not Est.  | 2400-3700 mg/kg orai/rat |
| Amino Alkyl Sllane |          | 1-5  | 919-30-2   | Not Est.  | 1780/kg oral/rat         |
| •                  |          |      |            |           | 4000 mg/kg \$kin Rabbit  |

#### PHYSICAL DATA

Boiling Point (\*C) Freezing Point (°C) Vapor Pressure (mmHg) Vapor Density (Air = 1) % Volatile by Volume Specific Gravity (Water = 1) Solubility in Water Solubility in Other Solvents Evaporation Rate (Butyl Acetate = 1) Appearance and Odor Odor Threshold

Not Available Negligible @ 25°C. Not Applicable 2 - 10 1.03 - 1.04 insoluble

Not Available

Soluble in most organic solvents

Not Applicable Smooth, thixotropic paste, almost odorless

Not Applicable

#### FIRE AND EXPLOSION DATA

Flash Point of Curing Byproduct and Method Lower Explosive Limit % Upper Explosive Limit % Autoignition Temperature Fire Extinguishing Agents Fire Fighting Procedures

Unusual Fire/Explosion Hazard Hazardous Combustion Products 85°C. P.M.C.C. ASTM D-93

Not Established Not Established

No Data

Dry Chemical, Waterspray, Chemical Foam, CO<sub>2</sub> Wear Self Contained Breathing Apparatus (SCBA) which provides eye protection and which is NIOSH approved. Sealant will burn if strongly heated. Water can be used to cool material below flash point.

None

Carbon Dioxide, Carbon Monoxide, Silicon Dioxide, Nitrogen Oxides

#### HEALTH HAZARD AND TOXICOLOGICAL DATA

A EFFECTS OF CHRONIC EXPOSURE

Health Effects Toxicological Data Carcinogenicity Data

Reproductive Data

Mutagenicity Data

Teratogenicity Data

Synergistic Products

Delayed Effects

Pulmonary Edema, Dermatitis

LD50 of mixture (calculated) Ingestion/Rat 3810-4670 mg/kg

The ingredients of this product are not listed as carcinogens by the National Toxicology Program, and have not been evaluated by the International Agency for Research on Cancer or the American Conference of Governmental Industrial Hygienists.

No information available and no adverse reproductive effects are anticipated.

No information available and no adverse mutagenic effects are anticipated.

No information available and no adverse teratogenic effects are anticipated.

None known

Decomposition product Methyl Ethyl Ketoxime (MEKO). Preliminary results from a lifetime study of rats and mice indicate potential for long term health effects. Until the study is completed we do not know if these effects will be relevant to human health. Until such time, exposure to MEKO should be as low as reasonably achievable. Exposure levels experienced by users indicate exposures of 2 ppm or less.

**B. EFFECTS OF ACUTE EXPOSURE** 

Not normally an inhalation hazard. At high vapor concentration, curing by-product has a narcotic action with no irreversible Inhalation

Moderate irritation. Can cause burns. Eves Skin

Mild irritant; may cause transient reddening of skin.



**€**)

Ingestion

Very low oral toxicity. May cause some nausea and an obstruction to gastro-intestinal tract.

Delayed (Subchromic & Chronic) Effects: Decomposition product Methyl Ethyl Ketoxime (MEKO). In a chronic oral toxicity

animal study, methyl ethyl ketoxime produced an adverse effect upon red blood cells. This was found for all dose levels tested. Gross nistopathologic alterations were observed in the spleen, lung, and kidney. In an soute dermal animal study,

200 mg/kg caused mild hematologic (blood) effects. No effects were seen at 20 mg/kg.

FIRST AID PROCEDURES

..alation

No emergency care anticipated. Treat symptomatically. If symptoms persist, consult physician.

Eye Contact

Do not attempt to physically remove solids or gums from eye. Immediately flush the contaminated eye(s) with lukewarm. gently flowing water for 20 minutes, by the clock, holding the eyelid(s) open. Obtain medical attention immediately.

Skin Contact

Remove contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. If symptoms persist,

obtain medical attention. Contaminated clothing should be laundered before re-use.

Ingestion

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Have the victim drink 8 to 10 ozs. (240 to 300 ml) of water or milk to dilute material in the stomach. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration. Repeat the administration of water/milk. Obtain medical attention immediately.

First Aid

Provide general supportive measures (comfort, warmth, rest). Consult a physician and/or the nearest Poison Control Center for all exposures except minor instances of inhalation or skin contact. Solid or plastic material should be removed

only by a physician.

VII

REACTIVITY DATA

Product Stability

Stable Will not occur

Hazardous Polymerization Incompatible Materials

CONCENTRATED ACIDS OR BASES - cause degradation of polymer. Boiling water may soften and weaken

material.

Hazardous Decomposition

Combustion will produce silicon dioxide, carbon monoxide and carbon dioxide.

Products

#### PREVENTATIVE MEASURES

#### A PERSONAL PROTECTION EQUIPMENT

Respiratory Protection

Not required unless normal ventilation is inadequate.

Eye/Face Protection

Chemical splash goggles

Skin Protection

Gloves, coveralls, apron may be useful to prevent contamination of skin or clothing.

Resistance of Materials for

No specific data. Most rubbers and plastics are adequate.

Protective Clathing

Ventilation Requirements

Local exhaust to provide sufficient removal of vapors.

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#### **B. STORAGE AND HANDLING**

Storage Conditions

Store under cool dry conditions. Keep container tightly sealed when not in use.

Handling Procedure

No apecial measures required. Do not inhale vapor or ingest sealant. Cured CSL Product requires no special

precautions.

#### C. ENVIRONMENTAL PROTECTION

Spill and Leak Procedure

Restrict access to the area of spill. Provide ventilation and protective clothing if necessary. Scrape-up sealant

with cardboard/rag and place in container.

Waste Disposal

Review environmental regulations prior to disposal. Silicone wastes can often be incinerated in approved

facilities. Solid wastes may be sent to a designated landfill site.

#### IX ADDITIONAL INFORMATION AND SOURCES USED

- American Conference of Governmental Industrial Hygienists Inc., Documentation of the Threshold Limit Values (TLV's) and Biological 1. Exposure Indices, 5th Edition, 1986, Cincinnati, OH.
- 2. National Institute for Occupational Health and Safety, Registry of Toxic Effects of Chemical Substances.
- Sigma-Aldrich Corp., U.S.A., The Sigma-Aldrich Library of Chemical Safety Data, 1985. 3.
- 4. Sittig, M., Handbook of Toxic and Hazardous Chemicals and Carcinogens, 2nd Edition, 1985, Park Ridge, NJ.
- 5. Canadian Centre for Occupational Health and Safety, CHEMINFO, Record #15E, 26E.
- 6. Material Safety Data Sheets from Cabot Corproation, Wacker-Chemie GMBH, General Filtration, Dow Corning, Union Carbide, Hoechst Canada.

#### PREPARATION INFORMATION

Date issued

October 24, 1988 Baz Mistry

Prepared By **Emergency Contact** 

Baz Mistry, Manager, Research and Development

### REGULATORY CLASSIFICATION

WHMIS Classification:

1. CLASS B-Flammable and Combustible Liquid

Division 3-Combustible Liquid

2. CLASS D-Poisonous and Infectious Material

Division 2-Other Toxic Effects

Subdivision b-Toxic

TDG Information:

Not regulated in Canada

The information contained herein has been prepared in good faith to comply with applicable federal and provincial (state) law(s). However, no warranty of any kind is given or implied and CSL Silicones Inc. will not be responsible for any damages, losses or injuries that may result from the use of any information contained here.

> **CSL SILICONES INC.** 144 Woodlawn Road West, Guelph, Ontario Canada N1H 1B5 Telephone: (519) 636-9044 FAX: (519) 836-9069

**MSDS NO. 250** 

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Page 1

## DOW CORNING(R) 3140 RTV COATING

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION Dow Corning Corporation 24 Hour Emergency Telephone: (517) 496-5900 South Saginaw Road Customer Service: (517) 496-6000 Product Disposal Information: (517) 496-6315 Midland, Michigan 48686 Transportation Information: (517) 496-8577 CHEMTREC: (800) 424-9300

MSDS No: 01015788

Current Version: 10/20/95

Generic Description: Silicone elastomer

Physical Form: Liquid

Color: Translucent white

Odor: Slight odor

NFPA Profile: Health 1 Flammability 1 Reactivity 0

Note: NFPA = National Fire Protection Association

| SECTION 2. | OSHA HAZARDOUS | COMPONENTS             |                                                                  |
|------------|----------------|------------------------|------------------------------------------------------------------|
| CAS Number | Wt%            | Component              | Exposure Limits                                                  |
| 001185553  | 6              | Methyltrimethoxysilane | Dow Corning guide: TWA 50 ppm. Also see methyl alcohol comments. |
| 068909206  | 16             | Trimethylated silica   | Dow Corning guide: 5 mg/m3<br>Ceiling (as dust).                 |

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm. The effects of overexposure listed in Section 3 include health effects related to conversion of methoxysilanes to methyl alcohol upon exposure to moist or humid air.

#### SECTION 3. EFFECTS OF OVEREXPOSURE

#### Acute Effects

Direct contact irritates slightly with redness and swelling. Eye:

A single relatively short exposure causes no known adverse effect. Several Skin:

repeated or prolonged exposures (24 to 48 hours) may irritate.

Vapor may irritate nose and throat. Product generates methyl alcohol which Inhalation:

may cause blindness and damage to nervous system. Vapor overexposure may

cause drowsiness.

Product generates methyl alcohol which may cause blindness and possibly Oral:

death if swallowed.

#### Repeated Exposure Effects

Skin: None Known.

Product generates methyl alcohol which may cause blindness and damage to Inhalation:

nervous system.

Product generates methyl alcohol which may cause blindness and possibly Oral:

death if swallowed.

#### Special Hazards

This material contains the following components with the special hazards listed below.

#### Carcinogens

None Known

DOW CORNING(R) 3140 RTV COATING

Page 2

Teratogens

None Known

<u>Mutagens</u>

None Known

Reproductive Toxins

None Known

Sensitizers

None Known

Comments:

When heated to temperatures above 180 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA

Permissible Exposure Limit for formaldehyde.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions component data and/or expert review of the product.

SECTION 4. FIRST AID MEASURES

Immediately flush with water for 15 minutes. Eye:

Skin:

No first aid should be needed.

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Oral:

Get medical attention. If conscious, induce vomiting. Lie down, keep

warm, and cover eyes to exclude light.

Comments: Treat same as methyl alcohol poisoning.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point (Closed Cup):

> 213.98 DEGREE F / 101.10 DEGREE C

Autoignition Temperature:

Not Determined

Flammability Limits in Air:

Not Determined

Extinguishing Media:

Carbon dioxide (CO2). Water spray. Dry chemical.

Foam. Water can be used to cool fire exposed

containers.

Unsuitable Extinguishing Media:

None

Fire Fighting Procedures:

Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate

the area according to your local emergency plan.

Unusual Fire Hazards:

None

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#### Hazardous Decomposition Products:

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Metal oxides. Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Containment/Clean-up: Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local,

state, and federal waste management regulations. Mop up, or wipe

up, or soak up with absorbent and contain for salvage or

DOW CORNING(R) 3140 RTV COATING

Page 3

disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials. Observe any safety precautions applicable to the cleaning material being used. Observe all personal protection equipment recommendations described in Sections 5 and 8. Local, state, and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

NOTE: See Section 8 for Personal Protective Equipment for Spills

SECTION 7. HANDLING AND STORAGE

Handling: No special precautions.

Keep container closed and store away from water or moisture. Storage:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Local exhaust:

Recommended

General Ventilation: Recommended

Personal Protective Equipment For Routine Handling

Eves:

Use proper protection - safety glasses as a minimum.

Skin:

Because of the nature of the fluorescent agent in this material, small amounts on the skin will fluoresce under UV light. This does not present a hazard. Washing at mealtime and end of shift Continued washing with soap and water will is recommended.

eventually remove the fluorescing agent from the skin.

Suitable Gloves:

No special protection needed.

Inhalation:

Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing

engineering controls.

Suitable Respirator:

Self-contained breathing apparatus (SCBA) or other supplied-air

respirator.

Personal Protective Equipment For Spills

Fva:

Use full face respirator.

Skin:

Because of the nature of the fluorescent agent in this material, small amounts on the skin will fluoresce under UV light. This does not present a hazard. Washing at mealtime and end of shift is recommended. Continued washing with soap and water will

eventually remove the fluorescing agent from the skin.

Inhalation/

Suitable Respirator:

Use self-contained breathing apparatus (SCBA) or other

supplied-air respirator.

Precautionary Measures:

Avoid eye contact. Avoid breathing vapor. Keep container

closed. Do not take internally.

DOW CORNING(R) 3140 RTV COATING

Page 4

Product evolves methyl alcohol when exposed to water or humid air. Comments: ventilation during use to control exposure within Section 2 guidelines or use air-supplied or self-contained breathing apparatus.

Note: These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray applications, may require added precautions.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form: Liquid

Color: Translucent white

Odor: Slight odor

Specific Gravity @ 250: 1.05

Viscosity: 300.00 P

Freezing/Melting Point: Not Applicable.

Boiling Point: Not Available.

Vapor Pressure @ 250: Not Determined.

Vapor Density: Not Determined.

Solubility in Water: Not Determined.

pH: Not Applicable.

Volatile content: Not Determined.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

#### SECTION 10. STABILITY AND REACTIVITY

Chemical Stability:

Stable.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Conditions to Avoid:

None.

Materials to Avoid:

Oxidizing material can cause a reaction.

Comments: Water, moisture, or humid air can cause hazardous vapors to form as described

in Section 2.

#### SECTION 11. TOXICOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

#### SECTION 12. **ECOLOGICAL INFORMATION**

OPTIONAL SECTION - Complete information not yet available.

#### SECTION 13. **DISPOSAL INFORMATION**

### RCRA Hazard Class (40CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? N

Federal Hazardous Waste Code: NA

Reactive: NA Characteristic Waste: Ignitable: NA Corrosive: NA

TCLP: NA

State or local laws may impose additional regulatory requirements regarding disposal.

NA = Not Applicable

Call Dow Corning Corporate Environmental Management, (517)496-6315, if additional information is required.

#### TRANSPORT INFORMATION SECTION 14.

DOW CORNING(R) 3140 RTV COATING

Page 5

DOT Information (49CFR 172.101)

Proper Shipping Name: Not Applicable

Hazard Technical Name: Not Applicable

Hazard Class: Not Applicable

Packing Group: Not Applicable

Not Applicable

Call Dow Corning Transportation, (517)496-8577, if additional information is required.

#### SECTION 15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

#### EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances:

None

UN/NA Number:

Section 304 CERCLA Hazardous Substances:

None

Section 312 Hazard Class:

Acute: 1

Chronic: '

Fire: N

Pressure: N

Reactive: N

Y = Yes N = No

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

#### Supplemental State Compliance Information

CAS Number

Wtx

Component

#### California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

None Known.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause birth defects or other reproductive harm.

None Known.

#### Hassachusetts

No ingredient regulated by MA Right-to-Know Law present.

DOW CORNING(R) 3140 RTV COATING

| New Jersey   |    |                                       |  |
|--------------|----|---------------------------------------|--|
| 070131678    | 76 | Dimethyl siloxane, hydroxy-terminated |  |
| 068909206    | 16 | Trimethylated silica                  |  |
| 001185553    | 6  | Methyltrimethoxysilane                |  |
| Pennsylvania |    |                                       |  |
| 070131678    | 76 | Dimethyl siloxane, hydroxy-terminated |  |
| 068909206    | 16 | Trimethylated silica                  |  |
| 001185553    | 6  | Methyltrimethoxysilane                |  |

#### SECTION 16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

(R) indicates Registered or Trademark

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Page 6

Page 1

### SILASTIC(R) E RTV SILICONE RUBBER BASE

#### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|                         | +                                            |
|-------------------------|----------------------------------------------|
| Dow Corning Corporation | 24 Hour Emergency Telephone: (517) 496-5900  |
| South Saginaw Road      | Customer Service: (517) 496-6000             |
| Midland, Michigan 48686 | Product Disposal Information: (517) 496-6315 |
| •                       | Transportation Information: (517) 496-8577   |
|                         | CHEMTREC: (800) 424-9300                     |
| 4                       | +                                            |

MSDS No: 1231197 Current Version: 08/29/96

Generic Description: Liquid silicone rubber.

Physical Form: Viscous Liquid

Color: White

Odor: Not reported

NFPA Profile: Health 1 Flammability 1 Reactivity 0

Note: NFPA = National Fire Protection Association

#### | SECTION 2. OSHA HAZARDOUS COMPONENTS

| CAS Number         | Wt & | Component                                  | Exposure Limits                                                                                          |
|--------------------|------|--------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <br> 068909206<br> | 26   | Trimethylated silica                       | Dow Corning guide: 5 mg/m3 Ceiling (as dust).                                                            |
| 068988896          | 7    | Dimethylvinylated and trimethylated silica | Dow Corning guide: 5 mg/m3 Ceiling (as dust).                                                            |
| None<br> <br> <br> | 3    | Silylated titanium dioxide                 | Observe titanium dioxide<br>limits: OSHA PEL (final<br>rule) and ACGIH TLV: TWA<br>10 m g/m3 total dust. |

|Comments: The above components are hazardous as defined in 29 CFR 1910.1200.

#### SECTION 3. EFFECTS OF OVEREXPOSURE

#### Acute Effects

Eye: Direct eye contact may cause temporary discomfort with mild redness

and dryness similar to windburn.

Skin: A single prolonged exposure (24 to 48 hours) causes no known adverse

effect.

|Inhalation: No irritation to eyes and respiratory passages. No injury is likely|

from relatively short exposures of less than 8 hours.

Oral: Small amounts transferred to the mouth by fingers during use, etc.,

should not injure. Swallowing large amounts may cause digestive dis-

comfort.

Page 2

#### SILASTIC(R) E RTV SILICONE RUBBER BASE

Repeated Exposure Effects

Skin:

None Known.

Inhalation: None Known.

loral: None Known.

|Special Hazards

This material contains the following components with the special hazards listed

Carcinogens

None Known

Teratogens

None Known

Mutagens

None Known

Reproductive Toxins

None Known

Sensitizers

Nome Known

Comments: When heated to temperatures above 180 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions component data and/or expert review of the product.

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SECTION 4. FIRST AID MEASURES

Immediately flush with water. Eye:

Skin: No first aid should be needed.

Inhalation: No first aid should be needed.

Page 3

#### SILASTIC(R) E RTV SILICONE RUBBER BASE

Oral: No first aid should be needed.

|Comments: Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

|Flash Point (Closed Cup): 212.00 DEGREE F / 100.00 DEGREE C

Autoignition Temperature: Not Determined

Flammability Limits in Air: Not Determined

Extinguishing Media: Water spray. Carbon dioxide (CO2). Dry chemical.

Foam. Water can be used to cool fire exposed con-

tainers.

Fire Fighting Procedures: Self-contained breathing apparatus and protective

clothing should be worn in fighting fires involving

chemicals.

Unusual Fire Hazards: None

#### Hazardous Decomposition Products:

|Thermal breakdown of this product during fire or very high heat conditions may | evolve the following hazardous decomposition products: Carbon oxides and traces | of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

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#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Containment/Clean-up: Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Mop up, or wipe up, or soak up with absorbent and contain for salvage or disposal. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials. Observe any safety precautions applicable to | the cleaning material being used. For large spills, provide diking or other appropriate containment to keep material from spreading. Observe all personal protection equipment recommendations described in Sections 5 and 8. Local, state, and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

NOTE: See Section 8 for Personal Protective Equipment for Spills

| SILASTIC(R) E RTV S                                                              | SILICONE RUBBER BASE                                                                                               | Page 4     |  |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------|--|
|                                                                                  |                                                                                                                    | <b>-</b> - |  |
| SECTION 7. HANDLE                                                                | NG AND STORAGE                                                                                                     |            |  |
| <br> Handling: No speci                                                          |                                                                                                                    |            |  |
| 1                                                                                | al precautions. Use reasonable care.                                                                               |            |  |
| •                                                                                |                                                                                                                    |            |  |
| SECTION 8. EXPOSU                                                                | TRE CONTROLS/PERSONAL PROTECTION                                                                                   | į          |  |
| <br> Engineering Contro                                                          | <u>ls</u>                                                                                                          | }<br>      |  |
| <br> Local exhaust:<br> General Ventilatio                                       | None should be needed<br>n: Recommended                                                                            | <br> <br>  |  |
| Personal Protectiv                                                               | e Equipment For Routine Handling                                                                                   |            |  |
| Eyes:                                                                            | Use proper protection - safety glasses as a minimum.                                                               |            |  |
| Skin:                                                                            | Washing at mealtime and end of shift is adequate.                                                                  |            |  |
| <br> Suitable Gloves:                                                            | No special protection needed.                                                                                      | ļ          |  |
| Inhalation:                                                                      | No respiratory protection should be needed.                                                                        |            |  |
| <br> Suitable Respirato                                                          | r: None should be needed.                                                                                          |            |  |
| Personal Protectiv                                                               | e Equipment For Spills                                                                                             |            |  |
| Eye:                                                                             | Use proper protection - safety glasses as a minimum.                                                               | }          |  |
|                                                                                  | Washing at mealtime and end of shift is adequate.                                                                  |            |  |
| Inhalation/<br> Suitable Respirator: No respiratory protection should be needed. |                                                                                                                    |            |  |
| Precautionary Measures: Avoid eye contact. Use reasonable care.                  |                                                                                                                    |            |  |
| Comments: None                                                                   |                                                                                                                    |            |  |
| perature, or                                                                     | tions are for room temperature handling. Use at elevated aerosol/spray applications, may require added precautions | .          |  |
| •                                                                                |                                                                                                                    | •          |  |

Page 5 SILASTIC (R) E RTV SILICONE RUBBER BASE SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Physical form: Viscous Liquid Color: White Odor: Not reported Specific Gravity @ 25C: 1.14 Viscosity: 800.00 P Freezing/Melting Point: Not Applicable. Boiling Point: Not Available. Vapor Pressure @ 25C: Not Determined. Vapor Density: Not Determined. Solubility in Water: Not Determined. pH: Not Applicable. Volatile content: < 5.00 % Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications. SECTION 10. STABILITY AND REACTIVITY Chemical Stability: Stable. Hazardous Polymerization: Hazardous polymerization will not occur. Conditions to Avoid: None.

|Materials to Avoid: Oxidizing material can cause a reaction.

Comments: None

SECTION 11. TOXICOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

SECTION 12. ECOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

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Page 6

#### SILASTIC(R) E RTV SILICONE RUBBER BASE

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#### SECTION 13. DISPOSAL INFORMATION

#### RCRA Hazard Class (40CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? N

|Federal Hazardous Waste Code: NA

|Characteristic Waste: Ignitable: NA Corrosive: NA Reactive: NA

TCLP: NA

State or local laws may impose additional regulatory requirements regarding disposal.

NA = Not Applicable

|Call Dow Corning Corporate Environmental Management, (517)496-6315, if additional information is required.

#### SECTION 14. TRANSPORT INFORMATION

#### DOT Information (49CFR 172.101)

Proper Shipping Name: Not Applicable

|Hazard Technical Name: Not Applicable

| |Hazard Class: Not Applicable

UN/NA Number: 0000

Packing Group: NA

00000 and NA = Not Applicable

Call Dow Corning Transportation, (517)496-8577, if additional information is re-

#### SECTION 15. REGULATORY INFORMATION

|Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR | 1910.1200

|TSCA Status: All chemical substances found in this product comply with the |Toxic Substances Control Act inventory reporting requirements.

Page 7

SILASTIC(R) E RTV SILICONE RUBBER BASE

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances:

None

Section 304 CERCLA Hazardous Substances:

001330207

.2 Xylene

100.00 LB RQ

Section 312 Hazard Class:

N Acute:

Chronic: N

Fire: N

Pressure: N

Reactive: N

Y = Yes N = No

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

Supplemental State Compliance Information

CAS Num-

Wt% Component

ber

California

Warning: This product contains the following chemical(s) listed by the State| of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

None Known.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause birth defects or other reproductive harm.

None Known.

Massachusetts

No ingredient regulated by MA Right-to-Know Law present.

New Jersey

63 Dimethyl siloxane, dimethylvinyl-terminated 068083192

Page 8 SILASTIC (R) E RTV SILICONE RUBBER BASE Trimethylated silica
Dimethylvinylated and trimethylated silica
Silylated titanium dioxide 068909206 068988896 None Pennsylvania Dimethyl siloxane, dimethylvinyl-terminated
Trimethylated silica
Dimethylvinylated and trimethylated silica 068083192 068909206 068988896 3 Silylated titanium dioxide \_\_\_\_\_\_ <del>|</del> SECTION 16. OTHER INFORMATION Prepared by: Dow Corning Corporation |This information is offered in good faith as typical values and not as a product| |specification. No warranty, expressed or implied, is hereby made. The recom-|mended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. (R) indicates Registered or Trademark This is the last page.

#### SILASTIC(R) E RTV SILICONE RUBBER CURING AGENT

**+-----**

#### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| T                       |                                               |
|-------------------------|-----------------------------------------------|
| Dow Corning Corporation | 24 Hour Emergency Telephone:   (517) 496-5900 |
| South Saginaw Road      | Customer Service:   (517) 496-6000            |
| Midland, Michigan 48686 | Product Disposal Information:  (517) 496-6315 |
| 1                       | Transportation Information:  (517) 496-8577   |
| 1                       | CHEMTREC:   (800) 424-9300                    |
|                         |                                               |

Generic Description: Silicone compound

Physical Form: Liquid Color: White

Odor: Not reported

NFPA Profile: Health 1 Flammability 1 Reactivity 1

|Note: NFPA = National Fire Protection Association

#### SECTION 2. OSHA HAZARDOUS COMPONENTS

| CAS Number          | Wt& | Component                                  | Exposure Limits                               |
|---------------------|-----|--------------------------------------------|-----------------------------------------------|
| ]<br> 068037592<br> | 34  | Dimethyl, methylhydrogen siloxane          | None established.                             |
| 068988896           | 20  | Dimethylvinylated and trimethylated silica | Dow Corning guide: 5 mg/m3 Ceiling (as dust). |

|Comments: The above components are hazardous as defined in 29 CFR 1910.1200.

#### SECTION 3. EFFECTS OF OVEREXPOSURE

#### Acute Effects

Eye: Direct eye contact may cause temporary discomfort with mild redness

and dryness similar to windburn.

Skin: A single prolonged exposure (24 to 48 hours) causes no known adverse

effect.

Inhalation: No irritation to eyes and respiratory passages. No injury is likely

from relatively short exposures of less than 8 hours.

Oral: Small amounts transferred to the mouth by fingers during use, etc.,

should not injure. Swallowing large amounts may cause digestive dis-

comfort.

### Repeated Exposure Effects

Page 2

### SILASTIC(R) E RTV SILICONE RUBBER CURING AGENT

Skin: None Known.

| |Inhalation: None Known.

Oral: None Known.

#### Special Hazards

This material contains the following components with the special hazards listed below.

Carcinogens

None Known

Teratogens

None Known

Mutagens

None Known

Reproductive Toxins

None Known

Sensitizers

None Known

Comments: When heated to temperatures above 180 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

The above listed potential effects of overexposure are based on actual data, re-|sults of studies performed upon similar compositions component data and/or ex-|pert review of the product.

### SECTION 4. FIRST AID MEASURES

Eye: Immediately flush with water.

Skin: No first aid should be needed.

|Inhalation: No first aid should be needed.

Oral: No first aid should be needed.

Page 3

SILASTIC (R) E RTV SILICONE RUBBER CURING AGENT

|Comments: Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

|Flash Point (Closed Cup): > 213.98 DEGREE F / 101.10 DEGREE C

Autoignition Temperature: Not Determined

|Flammability Limits in Air: Not Determined

Extinguishing Media: Water spray. Carbon dioxide (CO2). Dry chemical.

Foam. Water can be used to cool fire exposed con-

tainers.

|Fire Fighting Procedures: Self-contained breathing apparatus and protective

clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency

plan.

Unusual Fire Hazards: None

#### | Hazardous Decomposition Products:

SECTION 6. ACCIDENTAL RELEASE MEASURES

|Containment/Clean-up: Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Determine whether to evacuate or isolate the area depending on such specific factors as site location, population density, traffic flow, size of the release or spill, weather conditions, the material's hazards and risks to people, and whether a fire is underway or possible. Mop up, wipe up, or soak up with absorbent and place in a vented container for salvage or disposal. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials. Observe any safety precautions applicable to the cleaning material being used. For large spills, provide diking or other appropriate containment to keep material from spreading. Observe all personal protection equipment recom-

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#### SILASTIC(R) E RTV SILICONE RUBBER CURING AGENT

mendations described in Sections 5 and 8. Local, state, and | federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

NOTE: See Section 8 for Personal Protective Equipment for Spills

SECTION 7. HANDLING AND STORAGE

|Handling: No special precautions.

Storage: Product evolves minute quantities of flammable hydrogen gas. Do not repackage or store in unvented containers. Adequately ventilate the work area to maintain vapors well below established flammability limits! and exposure guidelines. Keep container closed and store away from water or moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

None should be needed Local exhaust:

General Ventilation: Recommended

Personal Protective Equipment For Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Washing at mealtime and end of shift is adequate. Skin:

|Suitable Gloves: No special protection needed.

Inhalation: No respiratory protection should be needed.

|Suitable Respirator: None should be needed.

Personal Protective Equipment For Spills

Use proper protection - safety glasses as a minimum. Eye:

Skin: Washing at mealtime and end of shift is adequate.

|Inhalation/

Suitable Respirator: No respiratory protection should be needed.

Precautionary Measures: Avoid eye contact. Use reasonable care.

Page 5

SILASTIC (R) E RTV SILICONE RUBBER CURING AGENT Comments: None Note: These precautions are for room temperature handling. Use at elevated tem-! perature, or aerosol/spray applications, may require added precautions. SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Physical form: Liquid Color: White Odor: Not reported Specific Gravity @ 25C: 0.99 Viscosity: 3200.00 CST
Freezing/Melting Point: Not Applicable. Boiling Point: Not Available. Vapor Pressure @ 25C: < 5.00 MM HG Vapor Density: Not Determined. Solubility in Water: Not Determined. pH: Not Applicable. Volatile content: 2.00 % Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications. \_\_\_\_\_\_\_ SECTION 10. STABILITY AND REACTIVITY Chemical Stability: Stable. |Hazardous Polymerization: Hazardous polymerization will not occur. |Conditions to Avoid: None. Materials to Avoid: Oxidizing material can cause a reaction. Comments: Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air'. SECTION 11. TOXICOLOGICAL INFORMATION OPTIONAL SECTION - Complete information not yet available. SECTION 12. ECOLOGICAL INFORMATION

Page 6

#### SILASTIC(R) E RTV SILICONE RUBBER CURING AGENT

OPTIONAL SECTION - Complete information not yet available.

SECTION 13. DISPOSAL INFORMATION

RCRA Hazard Class (40CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Y

|Federal Hazardous Waste Code: NA

|Characteristic Waste: Ignitable: NA Corrosive: NA Reactive: D003

TCLP: NA

State or local laws may impose additional regulatory requirements regarding dis-

NA = Not Applicable

|Call Dow Corning Corporate Environmental Management, (517)496-6315, if additional information is required.

#### SECTION 14. TRANSPORT INFORMATION

DOT Information (49CFR 172.101)

Proper Shipping Name: Not Applicable

Hazard Technical Name: Not Applicable

| Hazard Class: Not Applicable

UN/NA Number: Not Applicable

| Packing Group: Not Applicable

|Call Dow Corning Transportation, (517)496-8577, if additional information is re-

#### SECTION 15. REGULATORY INFORMATION

|Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR | 1910.1200

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

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#### SILASTIC(R) E RTV SILICONE RUBBER CURING AGENT

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances:

Section 304 CERCLA Hazardous Substances:

001330207

.4 Xylene

100.00 LB RQ

Section 312 Hazard Class:

Acute: N Chronic: N Fire: N Pressure: N

Reactive: Y

Y = Yes N = No

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

#### Supplemental State Compliance Information

CAS Num-

Wt &

Component

ber

#### California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

None Known.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause birth defects or other reproductive harm.

None Known.

#### Massachusetts

No ingredient regulated by MA Right-to-Know Law present.

New Jersey

Dimethyl siloxane, dimethylvinyl-terminated 068083192

Page 8 SILASTIC (R) E RTV SILICONE RUBBER CURING AGENT 34 Dimethyl, methylhydrogen siloxane 068037592 Dimethylvinylated and trimethylated silica
 Tetramethyl tetravinyl cyclotetrasiloxane 068988896 002554065 Pennsylvania 068988896 20 Dimethylvinylated and trimethylated silica 068083192 43 Dimethyl siloxane, dimethylvinyl-terminated 068037592 34 Dimethyl, methylhydrogen siloxane SECTION 16. OTHER INFORMATION |Prepared by: Dow Corning Corporation |This information is offered in good faith as typical values and not as a product | specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. (R) indicates Registered or Trademark This is the last page.

6306 Pineview Road • Dallas, Texas 75248 • (214) 701-8943 • Fax: (214) 701-8608



#### MATERIAL SAFETY DATA SHEET

PAGE 1/3

DATE ISSUED: April, 1998

SILICONES UNLIMITED, INC. 6306 PINEVIEW ROAD DALLAS, TX 75248 (972) 701-8943 (770) 643-1880

> Ī PRODUCT IDENTIFICATION

Product Identification: SU 100 SILICONE SEALANT/ADHESIVE REMOVER

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION II

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL I.D., COMMON NAMES)

THIS PRODUCT IS HYDROCARBON BASED. DOES NOT CONTAIN CHLORINATED SOLVENTS, MEK, ACETONE, ALCOHOLS, XYLENE, TOLUENE OR SIMILAR DANGEROUS SOLVENTS. IT IS NOT A CARCINOGEN OR POTENTIAL CARCINOGEN.

HMIS RATINGS: HEALTH: FLAMMABILITY: 1 2

REACTIVITY: 0 PROTECTION:

#### III PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 380F SPECIFIC GRAVITY: 0.82 VAPOR PRESSURE: 1 @ 68F MELTING POINT: N/A

WEIGHT/GALLON: 6.8 LBS. EVAPORATION RATE: LESS THAN 1.0

SOLUBILITY IN WATER: COMPLETE

APPEARANCE: LIGHT TO DARK BROWN

ODOR: TYPICAL HYDROCARBON PRODUCT NAME: SU 100

PAGE 2/3

### FIRE AND EXPLOSION HAZARD

FLASH POINT (TCC): 158F

FLAMMABLE LIMITS: LEL: 1.4, UEL: 9.3

EXTINGUISHING MEDIA: WATER, FOAM, MIST, CO2, WHATEVER SURROUNDING MATERIALS ARE INVOLVED.

SPECIAL FIRE FIGHTING PROCEDURES: SELF CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE AND PROTECTIVE CLOTHING RECOMMENDED.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: NONE KNOWN

### REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: DISCARD SOAKED

ITEMS

INCOMPATIBILITY:

STRONG OXIDIZING AND REDUCING AGENTS

HAZARDOUS DECOMPOSITION: NO UNUSUAL REACTIVITY

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID:

NONE

#### VI

#### HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION: YES SKIN: YES INGESTION: YES HEALTH HAZARDS (ACUTE AND CHRONIC): ASPIRATION MAY CAUSE

PULMONARY EDEMA

CARCINOGENICITY NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

SIGNS AND SYMPTOMS OF EXPOSURE: MAY CAUSE EYE AND SKIN IRRITATION

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN EMERGENCY FIRST AID PROCEDURES: IF INGESTED, DRINK LARGE AMOUNTS OF WATER, DO NOT INDUCE VOMITING, CALL PHYSICIAN IMMEDIATELY

PRODUCT NAME: SU 100

PAGE 3/3

## VII PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

ELIMINATE SOURCES OF IGNITION

ABSORB WITH SAND, EARTH OR INERT INGREDIENTS AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

WASTE DISPOSAL METHOD: DISPOSE OF AT A GOVERNMENTAL APPROVED LANDFILL, INCINERATOR OR RECOVERY FACILITY. OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTIONS IN HANDLING AND STORAGE: AVOID CONTACT WITH SKIN AND EYES, STORE IN COOL, DRY PLACE, REMOVE AND DISPOSE OF ANY CONTAMINATED CLOTHING

OTHER PRECAUTIONS: AVOID FREQUENT AND/OR PROLONGED SKIN CONTACT OR INHALATION EXTREMES.

## VIII CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH APPROVED, HAVE RESPIRATORS PRESENT

**VENTILATION:** 

LOCAL EXHAUST: X, MEETING TLD REQUIREMENTS SPECIAL: NO MECHANICAL X, OTHER: NO

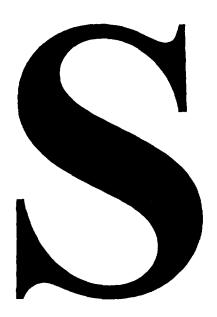
PROTECTIVE GLOVES: YES, NEOPRENE OR LATEX

EYE PROTECTION: WEAR GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: YES, STANDARD

WORK/HYGIENIC PRACTICES: SHOWER BATH AND EYE WASH SHOULD BE AVAILABLE





/CHOT1674

CHOMERICS INC 77 Dragon Court Woburn, MA 01888 EMERGENCY/SAFETY INFORMATION: (617) 935-4850

OR: (617) 938-8630

Rec by Money Corp 2/8/96 Sep

The # 3

SECTION I - IDENTIFICATION

PRODUCT (TRADE) NAME: Cho-Therm 1674

General Chemical Description: Solvent-based silicone

SECTION II - INGREDIENTS
Exposure Guidelines

OSHA PEL ACGIH TLV Components % by Weight Aluminum Oxide 60-80% 10 #0/#3 10 mg/m3 Silicone Resin 15-305 NE NE 50 рр≋ Toluene 10.20% 100 pp# Isopropanol 2-5% 50 pp≡ 50 ppm

SECTION III · PHYSICAL DATA

Boiling Point (Degree F): )200
Vapor Pressure (mm Hg @25 C): {4
Percent volatiles by weight: (20
Specific Gravity (water =1): ) 1.75
Solubility in Water : Insoluble

Vapor Density : Heavier than air

Appearance and Odor : Gray liquid; solvent odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Degree F): 40-50, based on toluene

Flammable limits:

Lel: 1.3% UEL: 7.1% for Toluene

Extinguishing Media:

Use carbon dioxide, dry chemical, foam.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions. Vapors may form flammable mixtures with air. Vapors from this product are heavier than air, and may travel a considerable distance to a source of ignition and flash back.

Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

SECTION V - REACTIVITY DATA

Product Stability:

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

Incompatibility:

Incompatible with strong oxidizers, acids, bases.

Hazardous Decompositions Products;

Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on th conditions of combustion.

Provided By Electrical Insulation Suppliers Inc.

MOR 001241

#### Conditions to avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

#### SECTION VI - RELEASE RESPONSE DATA

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### Small Spills:

Activate all explosion-proof exhuast ventilation in the immediate spill area. Extinguish open flames and eliminate all other sources of ignition. Wipe up, or absorb with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate chemical waste containers. Dispose of as an ignitable waste in accordance with all current Federal, State, and local regulations.

#### Large Spills:

Evacuate all personnel not directly involved with control/cleanup operations from the immediate spill area. Extinguish open flames and all other sources of ignition. Activate explosion-proof exhaust ventilation in the immediate spill area. Shut off the source of the release if this can be done without risk of injury. Use only spill response equipment approved for use in potential flammable/explosive environments. Directly area to contain the spill and prevent releases to sewers or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering sewers or other waterways. Collect abosrbed material and water rinses in appropriate waste containers. Dispose of as an ignitable waste in accordance with Federal, State, and local regulations.

#### SECTION VII - HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

#### Personal Protection:

This product can cause severe eye irritation. Prevent eye contact through the use of splash-proof chemical goggles or face shield. This product can cause skin irritation. Components of this product may be absorbed through the skin. Wear appropriate protective gloves to minimize skin contact. If necessary a promper chemical-resistant apron and additional impervious clothing should be used to minimize skin contact and prevent contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower must be available.

## Ventilation Recommendations and Respiratory Protection:

Provide effective explosion-proof mechanical exhaust ventilation to draw vapors, mists, or fumes generated during processing away from the worker and prevent routine inhalation. Ventilation must be sufficient to maintain airborne concentrations of Section 2 ingredients below their PEL/TLV values. The type of respiratory protection selected will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

#### Storage

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Do not store near heat, sparks or open flame. To prevent fire or explosion risk from static electricity accumulation and discharge, effectively ground storage and transfer containers in accordance with NFPA standards. Empty containers may contain flammable liquid or vapor residue. Do not cut, weld, solder, drill, grind or expose container to heat, flame or other source of ignition. They may explode and

Provided By Electrical Insulation Suppliers Inc.

cause injury or death.

SECTION VIII - HEALTH DATA

Routes of Exposure:

Skin and eye contact, inhalation of vapors.

Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin, eye and/or respriatory disorders.

#### Eye Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. Toluene may be absorbed through the skin

#### Inhalation:

High vapor concentrations may cause respiratory irritation, headaches, nausea, dizziness; may cause anesthetic efforts or other temporary central nervous system effects. Severity of effects will be dependent upon vapor concentration and severity of exposure.

Ingestion:

Harmful if swallowed.

Chronic Health Effects:

Overexposure to toluene has produced severe but reversible liver and kidney injury in humans. Repeated and prolonged overexposure has been associated with central nervous system injury and cardiac sensitization.

SECTION IX- FIRST AID PROCEDURES:

#### Eve Contact

Immediately flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

#### Skin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

#### Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, dilute by giving water to drink; never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

#### SECTION X ADDITIONAL INFORMATION

### TSCA STATUS:

All components of this product are listed in the EPA toxic Substance Control  ${\sf Act}$  Inventory.

#### SARA STATUS:

The components listed in Section 2 which are substances regulated by the SARA Section 313 amendments to RCRA are as follows: Toluene (108-88-3)

Special Notes:

Date prepared: 5/12/93 Document number: 1674

Abbreviations:

NA= Not Applicable NE = Not Established ND= Not Determined ppm= Parts per Million mg/m3= Milligrams Per Cubic Meter C= Ceiling Concentration STEL= Short Term Exposure Limit

Provided By Electrical Insulation Suppliers Inc.

FAX NO. : 6306919844

Apr. 23 2001 02:34PM P2

TMC-1014770

Rec. 5/10/01



280

# **BOW ELECTRONIC SOLDERS**

1 CROSSMAN ROAD, SAYREVILLE, NJ 08872 TEL: 732-316-2100 FAX:732-316-1185

## TRI-PURE HG

## For Electronic Grade High Reliability Soldering

TRI-PURE HG is manufactured from virgin metals, with a new manufacturing process for Bar Solder that REDUCES DROSS by 12% to 18%. This will be a direct <u>COST REDUCTION</u> for our customers as this process will not add to the cost of our products. Manufacturing will also have the added benefit of LESS DROSS, MORE FLUID SOLDER BATH, STRONGER SOLDER JOINTS AND BRIGHTER CONNECTIONS. BOW ELECTRONIC SOLDERS feels this new process combined with their use of virgin metals will meet the demands of today's sophisticated electronic manufacturing processes.

| Tin        |   | 62.75-63.5 |
|------------|---|------------|
| Antimony   | < | 0.02       |
| Copper     | < | 0.001      |
| Silver     | < | 0.001      |
| Bismuth    | < | 0.01       |
| Iron       |   | 0.0003     |
| Arsenic    |   | 0.0009     |
| Zinc       |   | 0.0003     |
| Aluminum   |   | 0.0003     |
| Cadmium    | < | 0.001      |
| Sulfur     |   | 0.0003     |
| Phosphorus |   | 0.0005     |
| Nickel     |   | 0.0003     |
| Lead       |   | Balance    |
| Gold       | < | 0.001      |
| Indium     |   | 0.003      |

TRI-PURE HG is designed to meet today's sophisticated electronic manufacturing processes and provide a reliable and strong solder joint. TRI-PURE HG is available in 1 lb. and 1 kg bars.

Complies with OSHA Hazard Communication Standard 29CFR 1910.1200

Rev. 5/1/00

TIN/LEAD

TRI-PURE HG

Tin/Lead

1%Sn/99%Pb to 99%Sn/1%Pb

BOW ELECTRONIC SOLDERS 1 CROSSMAN ROAD SAYREVILLE, NJ 08872

Phone No. 732-316-2100 Infotrac Emergency No. 1-800-535-5053

## 1. PRODUCT INGREDIENTS

| Chemical Name | CAS No.            | Weight<br><u>%</u> |      | ssible Alr<br>n.(mg/cu.m)<br>ACGIH | SARA Title III<br>Sect-313Chem |
|---------------|--------------------|--------------------|------|------------------------------------|--------------------------------|
| TIN           | 7440-31-5          | 0-100              | 2.0  | 2.0                                | NO                             |
| LEAD          | 743 <b>9-9</b> 2-1 | 0-100              | 0.05 | 0.15                               | YES                            |
|               |                    |                    |      |                                    |                                |

No other hazardous material is present in concentration greater than 1%(0.1% for carcinogens)

## 2. PHYSICAL DATA

Material is

Appearance and Odor SILVER-WHITE METAL

Melting Point METAL-179-312°C Boiling Point >1300°C Specific Gravity 7.3-11.3

Vapor Density N/A

Solubility in Water INSOLUBLE

Vapor Pressure N/A Evaporation Rate N/A

PH N/A

#### 3. FIRE AND EXPLOSION DATA

Flash Point METAL N/A Flammable Limits

Auto Ignition Temp.

N/A

CORE-300°F

N/A

Unusual Fire and Explosion Hazards
MOLTEN METALS PRODUCE FUME OR VAPOR THAT MAY BE TOXIC AND/OR RESPIRATORY
IRRITANTS. REACTS VIOLENTLY WITH OXYDIZING AGENTS.

Fire Extinguishing Agents Recommended USE CO2 OR DRY CHEMICAL ON SURROUNDING FIRE.

Fire Extinguishing Agents to Avoid
DO NOT USE WATER ON FIRE WHERE MOLTEN METAL IS PRESENT.

RCRA Status of Unused Material IF DISCARDED IN UNALTERED FORM, MATERIAL SHOULD BE TESTED TO DETERMINE IF IT MUST BE CLASSIFIED AS A HAZARDOUS WASTE FOR DISPOSAL PURPOSES. UNDER SPECIFIC CIRCUMSTANCES, APPLICATION CAN BE MADE TO THE EPA ADMINISTRATOR TO HAVE A PARTICULAR WASTE DESIGNATED NON-HAZARDOUS.

## 9. ADDITIONAL INFORMATION

Precautions to be taken in handling and storing: NONE

Other Precautions: NONE

## 10. TRANSPORTATION REQUIREMENTS

| D.O.T. HAZARD CLASS         | N/A |
|-----------------------------|-----|
| D.O.T. PROPER SHIPPING NAME | *   |
| D.O.T. LABELS REQUIRED      | N/A |
| D.O.T. PLACARD REQUIRED     | N/A |
| UN/NA CODE                  | N/A |

\*THIS PRODUCT IS NOT REGULATED BY THE D.O.T. AS SHIPPED. THIS MATERIAL IS ONLY REGULATED BY THE D.O.T. IF IN A POWDER FORM WITH A PARTICLE SIZE LESS THAN 100 MICROMETERS. (0.0040 INCHES)

### 11. CERCLA INFORMATION

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE RELEASE REQUIREMENTS OF SECTION 302:

CHEMICAL NAME: LEAD
REPORTABLE QUANTITY(LBS) 1.0 CERLA STATUTORY RQ

SPILLS TO THE ENVIRONMENT EXCEEDING THE REPORTABLE QUANTITY IN ANY 24 HOUR PERIOD MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (800-424-8802). NO REPORTING OF RELEASES OF THE HAZARDOUS SUBSTANCE IS REQUIRED IF THE DIAMETER OF THE PIECES OF THE SOLID METAL RELEASED IS EQUAL TO OR EXCEEDS 100 MICROMETERS (0.400 INCHES).

This Material Safety Data Sheet is offered for your information, consideration and investigation. Sow Electronic Solders provides no warranties, either express or implied and assumes no responsibilities for the accuracy or completeness of the data contained in this document. The data in this Material Buildy Data Sheet relates to this product and does not relate to use in combination with any other material or in any process.

Personal Hygiene

AVOID INHALATION OR INGESTION. PRACTICE GOOD HOUSEKEEPING AND PERSONAL HYGIENE PROCEDURES. A SHOWER IS RECOMMENDED IF SIGNIFICANT DUST EXPOSURE OCCURS.

**Engineering Controls** 

LOCAL EXHAUST VENTILATION IS RECOMMENDED FOR DUST AND/OR FUME GENERATION OPERATIONS WHERE AIRBORN EXPOSURES MAY EXCEED PERMISSIBLE AIR CONCENTRATIONS.

Storage

GENERAL STORAGE PROCEDURES ACCEPTABLE.

Special Precautions, Procedures, Label Instruction SPECIAL ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE OSHA LEAD STANDARD (1910.1025) AND RESPIRATOR STANDARD (1910.134) SHOULD AIRBORN EXPOSURES EXCEED THE OSHA ACTION LEVEL OR PEL.

## 6. PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection

WHERE AIRBORN EXPOSURES MAY EXCEED OSHA/ACGIH PERMISSIBLE AIR CONCENTRATIONS, THE MINIMUM RESPIRATORY PROTECTION RECOMMENDED IS A NEGATIVE PRESSURE AIR PURIFYING RESPIRATOR WITH CARTRIDGES THAT ARE NIOSH/MSHA APPROVED AGAINST DUST, FUMES AND MISTS HAVING A TWA NOT LESS THAN 0/05 MG/CU M.

Eyes and Face

SAFETY GLASSES RECOMMENDED WHERE THE POSSIBILITY OF GETTING DUST PARTICLES IN EYES EXISTS OR WHEN HANDLING MOLTEN METAL.

Other Clothing and Equipment

GLOVES AND OTHER PROTECTIVE CLOTHING RECOMMENDED IF SKIN CONTACT IS APPRECIABLE.

## 7. REACTIVITY DATA

Stability: STABLE

Conditions to Avoid; NOT APPLICABLE

Incompatibility: STRONG OXIDIZERS MAY CAUSE VIOLENT REACTION

Hazardous Decomposition Products: AT TEMPERATURES ABOVE THE MELTING POINT, TOXIC FUMES OR VAPORS MAY BE EMITTED.

### 8. ENVIRONMENTAL

Regulated by DOT? NO

Waste Disposal Method(DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LCCAL DISPOSAL OR DISCHARGE LAWS)
IF HAZARDOUS UNDER 40 CFR 261, SUBPARTS B AND C, MATERIAL MUST BE TREATED OR DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 254 OR 265. IF NON-HAZARDOUS, MATERIAL SHOULD BE DISPOSED IN A FACILITY MEETING THE REQUIREMENTS OF 40 CFR 257.

**Special Fire Fighting Precautions** USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL BODY PROTECTIVE CLOTHING.

#### 4. HEALTH HAZARD INFORMATION

**Primary Routes of Entry** X INHALATION INGESTION

**ABSORPTION** 

Carcinogencity

THIS PRODUCT HAS NOT BEEN LISTED AS A SUSPECT CARCINOGEN BY NTP, IARC OR OSHA.

Acute Overexposure(symptoms and effects) SEVERE SHORT-TERM OVEREXPOSURE MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS, CHARACTERIZED BY DROWSINESS, SEIZURES, COMA AND DEATH. IT SHOULD BE RECOGNIZED THAT EXPOSURES OF THIS MAGNITUDE IN AN INDUSTRIAL ENVIRONMENT ARE EXTREMELY UNLIKELY.

Chronic Overexposure(symptoms and effects) PROLONGED OVEREXPOSURE TO LEAD CAN RESULT IN SYSTEMIC POISONING WITH SYMPTOMS OF METALLIC TASTE, ANEMIA, INSOMNIA, WEAKNESS, CONSTIPATION, ABDOMINAL PAIN, GASTROINTESTINAL DISORDERS, JOINT AND MUSCLE PAIN AND MUSCULAR WEAKNESS AND MAY CAUSE DAMAGE TO THE BLOOD-FORMING, NERVOUS, KIDNEYS AND REPRODUCTIVE SYSTEMS. DAMAGE MAY INCLUDE REDUCED FERTILITY IN BOTH MEN AND WOMEN, DAMAGE TO THE FETUS OF EXPOSED PREGNANT WOMEN, ANEMIA, MUSCULAR WEAKNESS AND KIDNEY DYSFUNCTION.

Medical Conditions Possibly Aggravated by Exposure DISEASES OF THE BLOOD AND BLOOD FORMING ORGANS, KIDNEYS, NERVOUS AND POSSIBLY REPRODUCTIVE SYSTEMS.

## First Aid Procedures

INHALATION: REMOVE FROM EXPOSURE AND CALL A PHYSICIAN. SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP AND WATER. IF BURNS SHOULD OCCUR FROM MOLTEN METAL, TREAT FOR BURN AND GET IMMEDIATE MEDICAL ASSISTANCE. EYE CONTACT: FLUSH EYES WITH WATER POR 15 MINUTES, CALL A PHYSICIAN. INGESTION: INGEST LARGE QUANTITIES OF WATER, CALL A PHYSICIAN.

## 5. PRECAUTIONS/PROCEDURES

OVERHEATING OF ALLOY CAN PRODUCE METAL FUMES AND OXIDES. MACHINING operations such as grinding, sawing or buffing can generate airborn PARTICULATES IN THE WORK AREA. EXPOSURE LEVELS INDICATED IN SECTION 1 ARE RELAVENT TO THESE AND OTHER OPERATIONS.

Normal Handling

USE OF APPROVED RESPIRATORS IS REQUIRED FOR APPLICATIONS WHERE ADEQUATE VENTILATION CANNOT BE PROVIDED. ACTIVITIES WHICH GENERATE DUST OR FUME SHOULD BE AVOIDED. WHEN MELTED, THE TEMPERATURE SHOULD BE KEPT AS LOW AS POSSEDLE.

Spill or Leak

ANY METHOD THAT KEEPS DUST TO A MINIMUM IS ACCEPTABLE. VACUUMING IS PREFERRED. USE OF APPROVED RESPIRATORY PROTECTION WHERE POSSIBILITY OF DUST/FUME EXPOSURE EXISTS. DO NOT USE COMPRESSED AIR FOR CLEANING.

Material Safety Data Sheet

Multicore Solders, Inc. 1751 Jay Ell Drive Richardson, TX 75081

Preparer: Robert Gilbert Information: 972-238-1224 IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS CALL:800-424-9300 MSDS Date: 11/2/98

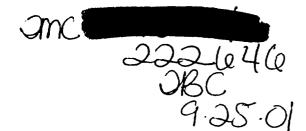
MSDS No: 3195

Identity:

Date Printed: 7/19/99

SN62 CR32 AGS89.5

SN62 CR32 DAS89.5



Transportation Requirements:

D.O.T. Hazard Class: N/A D.O.T. Proper Shipping Name: N/A

UN/NA Code: N/A D.O.T. Label Required: N/A Packing Group: N/A

N.F.P.A. /Health: 2 Reactivity: 0 Fire: 0

| Section I            | (Hazardous Ingredients / Identity | Information)           |                       |                     |
|----------------------|-----------------------------------|------------------------|-----------------------|---------------------|
| Hazardous Components | CAS.<br>Number                    | OSHA<br>Pel            | ACGIH<br>TLV          | SARA 313<br>Percent |
| Lead                 | 7439-92-1                         | 0.05 mg/m              | 3 0.05 mg/m 3         | 30-40               |
| Tin                  | 7440-31-5                         | 2 mg/m <sup>3</sup>    | 2 mg/m <sup>-3</sup>  | 50-60               |
| Silver               | 7440-22-4                         | 0.01 mg/m <sup>3</sup> | 0.1 mg/m <sup>3</sup> | 1-2                 |

Rosin core solder decomposition products as resin acids colophony

8050-09-7

Sensitizer. Reduce exposure as low as

3-5

possible.

Section II

(Physical / Chemical Characteristics)

Boiling Point: N/A

Vapor Density (Air=1): N/A

Evaporation Rate (Butyl Acetate=1): N/A

Specific Gravity: (Water = 1) @ 25° C: 4.5

Vapor Pressure (mm Hg.): N/A Percent Volatile By Volume: N/A

Melting Point:

179 °C

Solubility in Water:Insoluble.

Appearance and Odor: Gray metallic paste with a sweet odor.

(Fire and Explosion Hazard Data)

Flash Point (Method Used) N/A

Flammable Limits: LEL: N/A

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Special Fire Fighting Procedures: Use full body protective clothing and full face piece, self-contained breathing

appartatus operated in a positive-pressure mode. Unusual Fire and Explosion Hazards: Do not use water on fires where molten metal is present.

High

temperatures may produce heavy metal fumes, dust and or vapor.

Section IV

(Reactivity Data)

Stable? Yes Stability: Unstable? No

Incompatibility (Materials to Avoid): Strong Oxidizers

**Hazardous Decomposition or By-products:** 

High temperatures may produce heavy metal fumes, dust and or vapors.

Hazardous Polymerization:

May Occur? No Will Not Occur? Yes Conditions to Avoid: None Known

NL - Not Listed N/A - Not Applicable

msds\_r4

No:

3195

Section V

(Health Hazard Data)

Routes of Entry:

Inhalation? Yes Skin? No Ingestion? Yes Other: None

**Health Hazards (Acute and Chronic)** 

Acute: Weakness, vomiting, loss of appetite, convulsions, stupor and possibly coma.

Chronic: Weakness, insomnia, hypertension, slight irritation of the eyes, headache, possible paralysis. Chronic overexposure to lead may result in damage to blood-forming, nervous, urinary and reproductive system.

California Proposition 65 Warning! This product contains a chemical known to the state of California to cause cancer, and that may cause birth defects or other reproductive harm.

Carcinogenicity: NTP? No IARC Monographs? Yes OSHA Regulated? No Other? No

Formaldehyde formed during the decomposition of rosin flux is listed as a suspected human carcinogen by ACGIH. Lead listed by IARC as 2B.

Signs and Symptoms of Exposure:

Dust, vapor and or fumes may be irritating to skin, eyes and respiratory system.

Medical Conditions Generally Aggravated by Exposure:

Note to physicians: Lead and its inorganic compounds are neurotoxins which may produce neuropathy. Rosin is an allergen.

**Emergency First Aid Procedures** 

Eyes: Flush with copious quantities of water. Get medical attention.

Skin: Wash with soap and water.

Inhalation: Remove from exposure. Get medical attention if experiencing effects of overexposure.

Ingestion: Get immediate medical attention.

Section VI

(Precautions for Safe Handling and Use)

## Steps to be Taken in Case Material is Released or Spilled:

Particulate matter should be stored in dry containers for later disposal. Dust material should be vacuumed or wet swept. Do not use compressed air or dry sweeping as a means of cleaning.

Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations. Consult a licensed hazardous waste company.

Precautions to be Taken in Handling and Storing:

Wash hands with soap and water after handling solder. Store in dry area. Avoid skin contact. Avoid breathing smoke during soldering.

Other Precautions: None known.

Section VII

(Control Measures)

Respiratory Protection (Specify Type):

As specified by 29 CFR 1910.1025 (F) if exposure exceeds PEL.

Ventilation:

Local exhaust: Remove smoke from breathing area. Special: None needed

Mechanical (General): Adequate Other: None needed.

Protective Gloves: Impervious

**Eve Protection:** Face shield or safety glasses

Other Protective Clothing or Egulpment:

Personal clothing and shoes should be protected from contamination. Eye wash station.

Work/Hygenic Practices:

Do not eat, drink or smoke in work areas. Wash hands thoroughly before eating or smoking.

Material Safety Data Sheet

Multicore Solders, Inc. 1751 Jay Ell Drive Richardson, TX 75081

Preparer: Robert Gilbert Information: 972-238-1224 IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS CALL:800-424-9300 MSDS Date: 12/12/95

Date Printed: 5/5/99

Identity:

2%

Sn63 (Sn63Pb37) CRYSTAL 400 | Sn63 (Sn63Pb37) CRYSTAL 400

Rec 10/8/01 50

0-2

MSDS No: 7043

3%

TMC#1095533

LO+# 223160

Transportation Requirements:

D.O.T. Hazard Class: N/A D.O.T. Proper Shipping Name: N/A

UN/NA Code: N/A D.O.T. Label Required: N/A

Packing Group: N/A N.F.P.A. /Health: 2 Reactivity: 0 Fire: 0

Section I (Hazardous Ingredients / Identity Information) **SARA 313** Hazardous Components **OSHA ACGIH** CAS. Percent Pel **TLV** Number 7439-92-1 0.05 mg/m 3 0.05 mg/m 3 35-40 Lead Tin 7440-31-5 2 mg/m<sup>3</sup> 2 mg/m<sup>3</sup> 60-65

Rosin core solder decomposition products as

8050-09-7

Sensitizer. Reduce

exposure as low as

possible.

Section II

(Physical / Chemical Characteristics)

Boiling Point: N/A

resin acids colophony

Vapor Density (Air=1): N/A

Evaporation Rate (Butyl Acetate=1): N/A

Specific Gravity: (Water = 1) @ 25° C: 8

Vapor Pressure (mm Hq.): N/A Percent Volatile By Volume: N/A

183 °C Melting Point:

Solubility in Water:Insoluble.

Appearance and Odor: Gray metal with neutral odor.

Section III

(Fire and Explosion Hazard Data)

Flammable Limits: LEL: N/A UEL: N/A

Flash Point (Method Used) N/A

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Use full body protective clothing and full face piece, self-contained breathing Special Fire Fighting Procedures: appartatus operated in a positive-pressure mode.

Unusual Fire and Explosion Hazards: Do not use water on fires where molten metal is present. High temperatures may produce heavy metal fumes, dust and or vapor.

Section IV

(Reactivity Data)

Stability: Unstable? No Stable? Yes

Incompatibility (Materials to Avoid): Strong Oxidizers

Hazardous Decomposition or By-products:

High temperatures may produce heavy metal fumes, dust and or vapors.

Hazardous Polymerization:

May Occur? No Will Not Occur? Yes Conditions to Avoid: None Known

NL - Not Listed N/A - Not Applicable

msds r4

No: 7043

Section V

(Health Hazard Data)

Routes of Entry:

Inhalation?Yes Skin? No Ingestion? Yes Other: None

Health Hazards (Acute and Chronic)

Weakness, vomiting, loss of appetite, convulsions, stupor and possibly coma.

Chronic: Weakness, insomnia, hypertension, slight irritation of the eyes, headache, possible paralysis. Chronic overexposure to lead may result in damage to blood-forming, nervous, urinary and reproductive system.

California Proposition 65 Warning! This product contains a chemical known to the state of California to cause cancer, and that may cause birth defects or other reproductive harm.

Carcinogenicity: NTP? No IARC Monographs?Yes OSHA Regulated? No Other? No

Formaldehyde formed during the decomposition of rosin flux is listed as a suspected human carcinogen by ACGIH. Lead listed by IARC as 2B.

Signs and Symptoms of Exposure:

Dust, vapor and or fumes may be irritating to skin, eyes and respiratory system. **Medical Conditions Generally Aggravated by Exposure:** 

Note to physicians: Lead and its inorganic compounds are neurotoxins which may produce neuropathy. Rosin is an allergen.

**Emergency First Aid Procedures** 

Eyes: Flush with copious quantities of water. Get medical attention.

Skin: Wash with soap and water.

Inhalation: Remove from exposure. Get medical attention if experiencing effects of overexposure.

Ingestion: Get immediate medical attention.

Section VI

(Precautions for Safe Handling and Use)

## Steps to be Taken in Case Material is Released or Spilled:

Particulate matter should be stored in dry containers for later disposal. Dust material should be vacuumed or wet swept. Do not use compressed air or dry sweeping as a means of cleaning.

## Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations. Consult a licensed hazardous waste company.

#### Precautions to be Taken in Handling and Storing:

Wash hands with soap and water after handling solder. Store in dry area. Avoid skin contact. Avoid breathing smoke during soldering. Shelf life of 10 years if stored in a dry area at room temperature.

Other Precautions: None known.

Section VII

(Control Measures)

## Respiratory Protection (Specify Type):

As specified by 29 CFR 1910.1025 (F) if exposure exceeds PEL.

Mechanical (General): Adequate

Ventilation:

Local exhaust: Remove smoke from breathing area.

Special: None needed Other: None needed.

**Protective Gloves:** Impervious

**Eve Protection:** Face shield or safety glasses

## Other Protective Clothing or Equipment:

Personal clothing and shoes should be protected from contamination. Eye wash station.

## Work/Hygenic Practices:

Do not eat, drink or smoke in work areas. Wash hands thoroughly before eating or smoking.



# alphametals.

600 Route 440 Jersey City, New Jersey 07304 Telephone 201-434-6778



NUMBER 1000A REVISION 04/08/97

PAGE

1

## SECTION I. GENERAL INFORMATION

PRODUCT NAME (NUMBER)

Solder Paste 63Sn/37Pb Ultraprint 78 (86-90% Alloy)

CHEMICAL FAMILY

Mixture

D.O.T. HAZARD CLASS

Not regulated.

## SECTION II. HAZARDOUS INGREDIENTS

|             | INGREDIENTS            | CAS<br>NUMBER          | WEIGHT<br>PERCENT | OSHA<br>PEL               | ACGIH<br>TLV |
|-------------|------------------------|------------------------|-------------------|---------------------------|--------------|
| Tin<br>Lead |                        | 7440-31-5<br>7439-92-1 |                   | 2.0 mg/cum<br>0.05 mg/cum | _            |
| Rosins (    | modified), proprietary |                        | 4 - 7             | *                         | *            |

Sensitizer, reduce exposure as low as possible

## SECTION III. PHYSICAL DATA

(PUBLISHED OR ESTIMATED VALUES)

BOILING POINT Deg F.

(760 mm Hg)

VAPOR PRESSURE (mm Hg at 20 Deg. C.)

VAPOR DENSITY (AIR=1)

SOLUBILITY IN WATER

APPEARANCE AND ODOR

NA

NA

NA

SPECIFIC GRAVITY

(H20=1)

% VOLATILE BY WEIGHT **EVAPORATION RATE** 

NIL NIL

NA

Insoluble pН Grey, viscous paste, mild odor. NA

## SECTION IV FIRE AND EXPLOSION HAZARDEDATA

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air)

LEL: NA

UEL: NA

FLASH POINT Deg F.

NA

EXTINGUISHING MEDIA

NA

SPECIAL FIRE FIGHTING **PROCEDURES** 

Use NIOSH approved self-contained breathing apparatus if product is involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARD

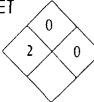
NA

MOR 001253



# alphametals.

600 Route 440 Jersey City, New Jersey 07304 Telephone 201-434-6778



NUMBER 1000A REVISION 04/08/97

PAGE 2

Solder Paste 63Sn/37Pb Ultraprint 78 (86-90% Alloy)

# SECTION V.(A) HEALTH HAZARD DATA (Symptoms/Effects Of Overexposure)

LEAD: Exposure to high levels of airborne or ingested lead may produce symptoms of anemia, insomnia, weakness, constipation, nausea and abdominal pain. Overexposure may cause damage to blood-forming, nervous, reproductive, intestinal and urinary systems. For occupational exposure requirements see 29 CFR 1910.1025 Lead Standard and its appendices.

CHRONIC TOXICITY: Women of child bearing age should avoid exposure to lead and its inorganic compounds due to post-natal effects. Lead can cause potential injury to a developing fetus and possible effects on reproduction. For overexposure to TIN see Section X.

LISTED CARCINOGENS: None of the metal elements of this product are confirmed as human carcinogens at this time by NTP, IARC, or OSHA. IARC classifies lead and some lead compounds as 2B carcinogens (possibly carcinogenic to humans).

MEDICAL CONDITIONS POSSIBLY AGGRAVATED: See Section X.

# SECTION V.(B) HEALTH HAZARD DATA (Emergency and First Aid Procedures)

INHALATION

If inhaled when heated to soldering temperatures, remove individual to fresh air. If breathing is difficult administer oxygen and consult a physician.

INGESTION

Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

SKIN CONTACT Wash exposed area with soap and water. Remove contaminated clothing.

· EYE CONTACT Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

# SECTION VIT REACTIVITY DATABLES

STABILITY STABLE:

X

UNSTABLE:

CONDITIONS NA

TO AVOID

MOR 001254

INCOMPATABILITY (Materials to Avoid)

Oxidizing materials, strong acids.

HAZARDOUS

Thermal decomposition may produce CO, CO2, abietic acid, aliphatic aldehydes, terpenes and other acids.

HAZARDOUS POLYMERIZATION

CONDITIONS TO AVOID

NA



# alphametals.

600 Route 440 Jersey City, New Jersey 07304 Telephone 201-434-6778



NUMBER 1000A REVISION 04/08/97

PAGE

3

Solder Paste 63Sn/37Pb Ultraprint 78 (86-90% Alloy)

## SECTION VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Material is a heavy viscous paste. Scoop into appropriate containers. Clean with degreasing detergent or solvent such as alcohol.

WASTE DISPOSAL Reclaim (Recycle) solder alloy portion of paste or store in

sealed containers for later disposal.

EPA Hazardous waste classification (D008).

Must be in accordance with Federal, State and Local Laws and

Regulations

## SECTION VIII. SPECIAL PROTECTION

RESPIRATORY If threshold limit value is exceeded or ventilation is not

adequate to remove smoke from the breathing zone, then a

NIOSH/MSHA approved, cartridge type respirator for organic fume

should be worn.

EYEWEAR

Safety glasses are recommended. Eye bath sould be located

near work site.

CLOTHING/

GLOVES

Protective gloves or chemically resistant finger cots are recommended. Finger cots should not be re-used when

contaminated.

VENTILATION

Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure levels below TLVs.

## SECTION IX. SPECIAL PREGAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Read all container labeling. Food and drink should not be consumed or tobacco products used, nor cosmetics applied in areas where solder paste may be used. Always wash hands after handling solder paste and before eating, drinking or smoking.

Material should be stored refrigerated upon receipt at 34 deg F to 45 deg F.

OTHER PRECAUTIONS:

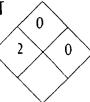
MOR 001255

Containers: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.



# alphametals.

600 Route 440 Jersey City, New Jersey 07304 Telephone 201-434-6778



NUMBER 1000A REVISION 04/08/97

PAGE

Solder Paste 63Sn/37Pb Ultraprint 78 (86-90% Alloy)

# SECTION X. ADDITIONAL INFORMATION

HEALTH HAZARD DATA: (continued)

MEDICAL CONDITIONS POSSIBLY AGGRAVATED:

Diseases of the blood and blood-forming organs, kidneys, nervous and possibly reproductive systems. Chemical hypersensitivity and diseases of the lungs.

CHRONIC TOXICITY:

TIN: Overexposure to dust or fume may cause irritation of the skin

and mucous membranes, and may result in a benign pneumoconiosis

(stannosis).

OVEREXPOSURE TO ROSIN:

INHALATION: Exposure to rosin fume may cause dizziness or headache. May also cause an allergic reaction such as throat and respiratory irritation or damage.

INGESTION: Essentially non-hazardous at room temperature. (NOT likely to

occur.)

SKIN: Repeated exposure to rosin fume may cause a skin rash. EYES: Can cause irritation. Not a primary irritant. Can be abrasive.

---- REGULATORY INFORMATION -----

Toxic Substance Control Act (TSCA) Status:

All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III (Section 313):

Components present in this product at a level which could require reporting under the statute are:

Lead

California State Proposition 65:

WARNING! This product contains LEAD known to the State of California to cause cancer, birth defects or other reproductive harm."

MOR 001256

CHEMTREC

1-800-424-9300

DAY OR NIGHT

The information contained herein is based on data considered accurate and is offered at a contained herein is based on data considered accurate and is offered at a large Post No warranty his expressed for implied regarding the faccuracy, of this data. Liability is expressly disclaimed for loss for injury arising yout of use of this information for the use of any materials designated. 

lor: 225199 IMC: 1095533 MSDS No: 7043 MBD

**Material Safety Data Sheet** 

Multicore Solders, Inc. 1751 Jay Ell Drive Richardson, TX 75081

Preparer: Robert Gilbert Information: 972-238-1224 IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS CALL:800-424-9300 MSDS Date: 12/12/95

Date Printed: 5/5/99

10/17/01

Identity:

Sn63 (Sn63Pb37) CRYSTAL 400 Sn63 (Sn63Pb37) CRYSTAL 400 3%

Transportation Requirements:

D.O.T. Hazard Class: N/A D.O.T. Proper Shipping Name: N/A

UN/NA Code: N/A D.O.T. Label Required: N/A Packing Group: N/A

N.F.P.A. /Health: 2 Reactivity: 0

Section I

(Hazardous Ingredients / identity Information)

Hazardous Components CAS. **OSHA** ACGIH **SARA 313** Number Pel TLV Percent 0.05 mg/m 3 0.05 mg/m 3 7439-92-1 Lead 35-40 Tin 7440-31-5 2 mg/m<sup>3</sup> 2 ma/m<sup>3</sup> 60-65

Rosin core solder decomposition products as

8050-09-7

Sensitizer. Reduce exposure as low as

resin acids colophony

possible.

Section II

(Physical / Chemical Characteristics)

Boiling Point: N/A

Vapor Density (Air=1): N/A

Evaporation Rate (Butyl Acetate=1): N/A

Specific Gravity: (Water = 1) @ 25° C: 8

Vapor Pressure (mm Hg.): N/A

Percent Volatile By Volume: N/A

Melting Point:

183 °C

0-2

Solubility in Water:Insoluble.

Appearance and Odor: Gray metal with neutral odor.

(Fire and Explosion Hazard Data)

Flammable Limits: LEL: N/A UEL: N/A

Flash Point (Method Used) N/A

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

2%

Special Fire Fighting Procedures: Use full body protective clothing and full face piece, self-contained breathing appartatus operated in a positive-pressure mode.

Unusual Fire and Explosion Hazards: Do not use water on fires where molten metal is present.

High

temperatures may produce heavy metal fumes, dust and or vapor. Section IV (Reactivity Data)

Stable? Yes Stability: Unstable? No

Incompatibility (Materials to Avoid): Strong Oxidizers

Hazardous Decomposition or By-products:

High temperatures may produce heavy metal fumes, dust and or vapors.

Hazardous Polymerization:

May Occur? No Will Not Occur? Yes Conditions to Avoid: None Known

NL - Not Listed N/A - Not Applicable

msds r4

7043

Section V

(Health Hazard Data)

Routes of Entry:

Skin? No Ingestion? Yes Other: None Inhalation? Yes

Health Hazards (Acute and Chronic)

Acute: Weakness, vomiting, loss of appetite, convulsions, stupor and possibly coma.

Chronic: Weakness, insomnia, hypertension, slight irritation of the eyes, headache, possible paralysis. Chronic overexposure to lead may result in damage to blood-forming, nervous, urinary and reproductive system.

California Proposition 65 Warning! This product contains a chemical known to the state of California to cause cancer, and that may cause birth defects or other reproductive harm.

Carcinogenicity: NTP? No IARC Monographs?Yes OSHA Regulated? No Other? No

Formaldehyde formed during the decomposition of rosin flux is listed as a suspected human carcinogen by ACGIH. Lead listed by IARC as 2B.

Signs and Symptoms of Exposure:

Dust, vapor and or fumes may be irritating to skin, eyes and respiratory system. Medical Conditions Generally Aggravated by Exposure:

Note to physicians: Lead and its inorganic compounds are neurotoxins which may produce neuropathy. Rosin is an allergen.

Emergency First Aid Procedures

Eyes: Flush with copious quantities of water. Get medical attention.

Skin: Wash with soap and water.

Inhalation: Remove from exposure. Get medical attention if experiencing effects of overexposure.

Ingestion: Get immediate medical attention.

Section VI

(Precautions for Safe Handling and Use)

Steps to be Taken in Case Material is Released or Spilled:

Particulate matter should be stored in dry containers for later disposal. Dust material should be vacuumed or wet swept. Do not use compressed air or dry sweeping as a means of cleaning.

Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations. Consult a licensed hazardous waste company.

Precautions to be Taken in Handling and Storing:

Wash hands with soap and water after handling solder. Store in dry area. Avoid skin contact. Avoid breathing smoke during soldering. Shelf life of 10 years if stored in a dry area at room temperature.

Other Precautions: None known.

Section VII

(Control Measures)

Respiratory Protection (Specify Type):

As specified by 29 CFR 1910.1025 (F) if exposure exceeds PEL.

Ventilation:

Local exhaust: Remove smoke from breathing area. Special: None needed

> Mechanical (General): Adequate Other: None needed.

Protective Gloves: Impervious

Eve Protection: Face shield or safety glasses

Other Protective Clothing or Equipment:

Personal clothing and shoes should be protected from contamination. Eye wash station.

Work/Hygenic Practices:

Do not eat, drink or smoke in work areas. Wash hands thoroughly before eating or smoking.

Kec. 7/20/01

MSDS Date: 12/12/95

MSDS No: 7043

Multicore Solders, Inc. 1751 Jay Ell Drive Richardson, TX 75081

Material Safety Data Sheet

Preparer: Robert Gilbert Information: 972-238-1224 IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS CALL:800-424-9300 Identity:

Date Printed: 5/14/98

Sn63 (Sn63Pb37) CRYSTAL 400 | Sn63 (Sn63Pb37) CRYSTAL 400 2%

13%

Lot: 222141

TMC: 1189032

MRD 9/19/01

Transportation Requirements:

D.O.T. Hazard Class: N/A D.O.T. Proper Shipping Name: N/A

UN/NA Code: N/A D.O.T. Label Required: N/A Packing Group: N/A

N.F.P.A. /Health: 2

Reactivity: 0 Fire: 0

| Section I            | (Hazardous Ingredients / Identity Information) |                           |                   |                     |  |
|----------------------|------------------------------------------------|---------------------------|-------------------|---------------------|--|
| Hazardous Components | CAS.<br>Number                                 | OSHA<br>Pel               | ACGIH             | SARA 313<br>Percent |  |
| Lead                 | 7439-92-1                                      | 0.05 mg/m <sup>3</sup> 0. |                   | 35-40               |  |
| Tin                  | 7440-31-5                                      | 2 mg/m <sup>3</sup> 2     | mg/m <sup>3</sup> | 60-65               |  |

Rosin core solder decomposition products as resin acids colophony

8050-09-7

Sensitizer. Reduce exposure as low as

0-2

possible.

Section II

(Physical / Chemical Characteristics)

**Boiling Point: N/A** 

Vapor Density (Air=1): N/A

Evaporation Rate (Butyl Acetate=1): N/A

Specific Gravity: (Water = 1) @ 25° C: 8

Vapor Pressure (mm Hg.): N/A

Percent Volatile By Volume: N/A 183 °C Melting Point:

Solubility in Water.Insoluble.

Appearance and Odor: Gray metal with neutral odor.

Section III

(Fire and Explosion Hazard Data)

Flash Point (Method Used) N/A

Flammable Limits: LEL: N/A

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Special Fire Fighting Procedures: Use full body protective clothing and full face piece, self-contained breathing appartatus operated in a positive-pressure mode.

Unusual Fire and Explosion Hazards: Do not use water on fires where molten metal is present.

High

UEL: NA

temperatures may produce heavy metal furnes, dust and or vapor, Section IV (Reactivity Data)

Stability: Unstable? No Stable? Yes

Incompatibility (Materials to Avoid): Strong Oxidizers

Hazardous Decomposition or By-products:

High temperatures may produce heavy metal fumes, dust and or vapors. Hazardous Polymerization:

May Occur?No Will Not Occur? Yes Conditions to Avoid: None Known

NL - Not Listed N/A - Not Applicable

msds\_r4

No:

7043

Section V

(Health Hazard Data)

Routes of Entry:

Inhalation?Yes

Skin? No Ingestion? Yes Other: None

Health Hazards (Acute and Chronic)

Acute: Weakness, vomiting, loss of appetite, convulsions, stupor and possibly coma.

Chronic: Weakness, insomnia, hypertension, slight irritation of the eyes, headache, possible paralysis. Chronic overexposure to lead may result in damage to blood-forming, nervous, urinary and reproductive system.

California Proposition 65 Warning! This product contains a chemical known to the state of California to cause cancer, and that may cause birth defects or other reproductive harm.

Carcinogenicity: NTP? No IARC Monographs?Yes OSHA Regulated? No Other? No

Formaldehyde formed during the decomposition of rosin flux is listed as a suspected human carcinogen by ACGIH. Lead listed by IARC as 2B.

Signs and Symptoms of Exposure:

Dust, vapor and or fumes may be irritating to skin, eyes and respiratory system.

Medical Conditions Generally Aggravated by Exposure:

Note to physicians: Lead and its inorganic compounds are neurotoxins which may produce neuropathy.Rosin is an allergen.

Emergency First Aid Procedures

Eyes: Flush with copious quantities of water. Get medical attention.

Skin: Wash with soap and water.

Inhalation: Remove from exposure. Get medical attention if experiencing effects of overexposure.

Ingestion: Get immediate medical attention.

Section VI

(Precautions for Safe Handling and Use)

Steps to be Taken in Case Material is Released or Spilled:

Particulate matter should be stored in dry containers for later disposal. Dust material should be vacuumed or wet swept. Do not use compressed air or dry sweeping as a means of cleaning.

Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations. Consult a licensed hazardous waste company.

Precautions to be Taken in Handling and Storing:

Wash hands with soap and water after handling solder. Store in dry area. Avoid skin contact. Avoid breathing smoke during soldering. Shelf life of 10 years if stored in a dry area at room temperature.

Other Precautions: None known.

Section VII

(Control Measures)

Respiratory Protection (Specify Type):

As specified by 29 CFR 1910.1025 (F) if exposure exceeds PEL.

Ventilation:

Local exhaust: Remove smoke from breathing area.

Special: None needed

Mechanical (General): Adequate

Other: None needed.

Protective Gloves: Impervious

**Eye Protection:** Face shield or safety glasses

Other Protective Clothing or Equipment:

Personal clothing and shoes should be protected from contamination. Eye wash station.

Work/Hygenic Practices:

Do not eat, drink or smoke in work areas. Wash hands thoroughly before eating or smoking.

Material Safety Data Sheet

Multicore Solders, Inc. 1751 Jay Ell Drive Richardson, TX 75081

Preparer: Robert Gilbert Information: 972-238-1224 IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS CALL:800-424-9300 MSDS Date: 12/12/95

Date Printed: 5/14/98

Sn63 (Sn63Pb37) CRYSTAL 400 | Sn63 (Sn63Pb37) CRYSTAL 400

Identity:

2%

MSDS No: 7043

13%

TMC# # 1015467 DOOD 10+# 993099

Transportation Requirements:

D.O.T. Hazard Class: N/A D.O.T. Proper Shipping Name: N/A

UN/NA Code: N/A D.O.T. Label Required: N/A

Packing Group: N/A N.F.P.A. /Health: 2 Reactivity: 0

Fire: 0

| Section I            | (Hazardous Ingredients / Identity Information) |             |                                     |                     |  |
|----------------------|------------------------------------------------|-------------|-------------------------------------|---------------------|--|
| Hazardous Components | CAS.<br>Number                                 | OSHA<br>Pel | ACGIH<br>TLV                        | SARA 313<br>Percent |  |
| Lead                 | 7439-92-1                                      | 0.05 mg/m   | <sup>3</sup> 0.05 mg/m <sup>3</sup> | 35-40               |  |
| Tin                  | 7440-31-5                                      | 2 mg/m³     | 2 mg/m <sup>-3</sup>                | 60-65               |  |

Rosin core solder decomposition products as resin acids colophony

8050-09-7

Sensitizer. Reduce exposure as low as

0-2

possible.

Section II

(Physical / Chemical Characteristics)

Boiling Point: N/A

Vapor Density (Air=1): N/A

Evaporation Rate (Butyl Acetate=1): N/A

Specific Gravity: (Water = 1) @ 25° C: 8

Vapor Pressure (mm Hg.): N/A Percent Volatile By Volume: N/A

Melting Point:

183 °C

Solubility in Water:Insoluble.

Appearance and Odor: Gray metal with neutral odor.

Section III

(Fire and Explosion Hazard Data)

Flash Point (Method Used) NA

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Flammable Limits: LEL: NA UEL: NA

Special Fire Fighting Procedures: Use full body protective clothing and full face piece, self-contained breathing appartatus operated in a positive-pressure mode.

Unusual Fire and Explosion Hazards: Do not use water on fires where molten metal is present. temperatures may produce heavy metal fumes, dust and or vapor.

Higi

Section IV (Reactivity Data)

Stability: Unstable? No Stable? Yes

Incompatibility (Materials to Avoid): Strong Oxidizers

Hazardous Decomposition of By-products:

High temperatures may produce heavy metal fumes, dust and or vapors.

Hazardous Polymerization:

May Occur? No Will Not Occur? Yes Conditions to Avoid: None Known

NL - Not Listed N/A - Not Applicable

mads r4

No:

7043

Section V

(Health Hazard Data)

Routes of Entry:

Inhalation? Yes Skin? No Ingestion? Yes Other: None

Health Hazards (Acute and Chronic)

Acute: Weakness, vomiting, loss of appetite, convulsions, stupor and possibly coma.

Chronic: Weakness, insomnia, hypertension, slight irritation of the eyes, headache, possible paralysis. Chronic overexposure to lead may result in damage to blood-forming, nervous, urinary and reproductive system.

California Proposition 65 Warning! This product contains a chemical known to the state of California to cause cancer, and that may cause birth defects or other reproductive harm.

Carcinogenicity: NTP? No IARC Monographs?Yes OSHA Regulated? No Other? No

Formaldehyde formed during the decomposition of rosin flux is listed as a suspected human carcinogen by ACGIH Lead listed by IARC as 2B.

Signs and Symptoms of Exposure:

Dust, vapor and or fumes may be irritating to skin, eyes and respiratory system.

Medical Conditions Generally Aggravated by Exposure:

Note to physicians: Lead and its inorganic compounds are neurotoxins which may produce neuropathy.Rosin is an allergen.

**Emergency First Aid Procedures** 

Eyes: Flush with copious quantities of water. Get medical attention.

Skin: Wash with soap and water.

Inhalation: Remove from exposure. Get medical attention if experiencing effects of overexposure.

Ingestion: Get immediate medical attention.

Section VI

(Precautions for Safe Handling and Use)

## Steps to be Taken in Case Material is Released or Spilled:

Particulate matter should be stored in dry containers for later disposal. Dust material should be vacuumed or wet swept. Do not use compressed air or dry sweeping as a means of cleaning.

Waste Disposal Method:

Dispose of in accordance with local, state and federal regulations. Consult a licensed hazardous waste company.

## Precautions to be Taken in Handling and Storing:

Wash hands with soap and water after handling solder. Store in dry area. Avoid skin contact. Avoid breathing smoke during soldering. Shelf life of 10 years if stored in a dry area at room temperature.

Other Precautions: None known.

Section VII

(Control Measures)

## Respiratory Protection (Specify Type):

As specified by 29 CFR 1910.1025 (F) if exposure exceeds PEL.

Ventilation:

Local exhaust: Remove smoke from breathing area. Special: None needed

Mechanical (General): Adequate Other. None needed.

Protective Gloves: Impervious

Eye Protection: Face shield or safety glasses

## Other Protective Clothing or Equipment:

Personal clothing and shoes should be protected from contamination. Eye wash station.

## Work/Hygenic Practices:

Do not eat, drink or smoke in work areas. Wash hands thoroughly before eating or smoking.

APR 22 '94 13:13

PO# 74774

Attn: DONE:A

. Material Safety Data Sheet

MSDS Number: "245" Core

Page 1 of 4

KESTER SOLDER 515 E. TOUHY AVENUE DES PLAINES, IL 60018

Date Prepared:

20 May 1993

Supersedes:

01 June 1992

Prepared By:

D. Bernier

297-1600

r For Information: 1708/ 287-1600

CHEMTREC 24-Hour Emergency Telephone Number: (800) 424-\$300

# 708 960-74 SECTION 1 - PRODUCT IDENTIFICATION AND USE

\*245\* FLUX CORED SOLDER

Product Name And Number As Used On Label

RECEIVED

APR 22 1994

PRODUCT USE: Soldering flux in cored solder for electrical or electronic applications.

THE MOREY CORP.

NFPA Rating:

Health:

Flammability:

Reactivity:

Special:

HMIS Rating:

Health:

Flammability:

Reactivity:

Personal Protection:

X

DOT: Not Regulated.

WHMIS: Class D. Division 2. Subdivision B.

TDG: Not Regulated.

NA = Not Applicable

NE = Not Established

UN = Unknown

## SECTION 2 - INGREDIENTS AND HAZARDS

| HAZARDOUS INGREDIENTS 1% or greater | I C A C    | WT. | OSHA   | ACGIH TLV           |
|-------------------------------------|------------|-----|--------|---------------------|
| CARCINGENS 0.1% or greater          | C.A.S.     |     |        |                     |
| CARCINOCEUS OUR OF STORMS           | Number     | %   | PEL    | TWA                 |
| • :                                 |            |     | m8/m_3 | mg/m <sup>2</sup> 3 |
| Lead                                | 7439-92-1* | ••  | 0.05   | 0.15                |
| Tis                                 | 7440-31-5  | ••  | 2.0    | 2.0                 |
| Silver                              | 7440-22-4* | ••  | 0.01   | 0.1                 |
| Bismuth                             | 7440-69-9  | **  | NE     | NE                  |
| Antimony                            | 7440-36-0* | 0.0 | 0.5    | 0.5                 |
| Modified Rosin                      | 65997-05-9 | <1  | NE     | NE                  |
| Carboxylic Acid                     | 68603-86-1 | <1  | NE     | NE                  |
| NON-HAZARDOUS INGREDIENTS           |            |     |        |                     |
|                                     |            |     |        |                     |
|                                     |            |     | ] мо   | DR 001263           |
|                                     |            |     | .]     | ·                   |

#This Chemical is subject to the reporting requirements of Section 313 of Title III of the Superfund Amandment and Resultorization Act (SARA) of 1986 and 40 CFR Part 372.

Composition and weight % of solder alloys varies widely and can be determined by product label.

## KESTER SOLDER

MSDS Number:

"245" Core

Page 2 of 4

Date Prepared:

20 May 1993

# SECTION 3 - PHYSICAL DATA

Boiling Point (760 mm Hg):

NA P NA°C

Vapor Pressure (mm Hg at 20 °C): NA

Vapor Density (sir=1): NA

Solubility in Water (% by weight): 0

DH: NA

Specific Gravity (water =1 at 25 °C): >1

Melting Points

NA°F

Evaporation Rate (butyl acetate = 1):

NA

% Volatile(by volume): NA

Volatile Organic Compound (VOC):

NA g/liter

Odor Threshold: NE

Appearance and Odor:

Silver-gray metal in wire, ribbon or preformed shapes with a core of flux.

# SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flesh Point (T.O.C.):

NA °P

NA °C

Auto-Ignition Tomperature:

NA °F.

NA C

Flammability Limits % by volume in air

LELINA

UEL: NA

Retinguishing Media: ( ) WATER ( ) CARBON DIOXIDE ( ) ALCOHOL FOAM

) DRY CHEMICAL

Hazardous Combustion Products: Meltad solder may liberate carbon monoxide, carbon dioxide, lead oxide fumes.

on Sensitivity: Bea.

Impact - None Identified

Static discharge - ( ) Yes (X) No

pecial Firefighting Procedures: Wear self-contained breathing apparams if this material is in the vicinity of a fire.

munual Fire and Explosion Hazarda:

Flux in cored solder may ignite when the solder males in a fire.

# SECTION 5 - REACTIVITY HAZARD DATA

FARILITY (X) Stable ( ) Unstable

Conditions to Avoid: None

commutability(materials to avoid);

Strong soid, strong oxidizars.

zardous Decemposition Products: When heated to soldering temperatures, the solvent in the flux will boil away and carry s droplets of rosin and thermal degradation products such as aliphatic aldehydes, acids and terpenes. No lead is secred in firmes from soldering below 1000 °F (537 °C).

## RECEIVED

APR 22 1994

THE MOREY-CORP.

AZARDOUS POLYMERIZATION:

: Occur

Conditions To Avoid: NE

) Will Not Occur

| YE           | CT    | ER | 9/  | T. | D | ED           |
|--------------|-------|----|-----|----|---|--------------|
| $\mathbf{r}$ | - J . |    | -31 |    |   | $\mathbf{c}$ |

MSDS Number:

"245" Core

Page 3 of 4

Data Prepared:

20 May 1993

| SECTION 6 - | HEALTH | HAZARD | DATA |
|-------------|--------|--------|------|
|-------------|--------|--------|------|

EXPOSURE LIMITS: Ingested LD(50): inheled LC(50): NE g/Kg NE g/Kg Primary exposure during soldering is to evaporated solvent which may contain droplets of rosin and / or other organic decomposition products. PRIMARY ROUTES OF ENTRY: ( ) Skin (X) Eyes (X) inhelation (X) Ingestion TARGET ORGANS: Flux fumes: eyes, mucous membranes and respiratory system. Ingestion of lead metal can affect kidneys, gestrointestinal, reproductive and naurological systems. EFFECTS OF ACUTE (severe short-term) EXPOSURE: INHALATION: Flux fumes during soldering may cause irritation and damage of mucous membranes and respiratory system. RECEIVED SKIN CONTACT: Possible local irritation by contact with flux or funes. APR 22 1994 SKIN ABSORPTION: None THE MOREY CORP. EYE CONTACT: Initation from contact with smoke from soldering. INGESTION: Not likely to occur. Breathing fumes during soldering may cause respiratory irritation. EFFECTS OF CHRONIC (prolonged) EXPOSURE: besideshe and irritation of mucous membranes. Repeated ingestion of lead can result in systemic poisoning. Pro-existing conditions of the lungs, diseases of the blood and Medical Conditions Generally Aggravated by Exposure: blood-forming organs, kidneys, nerves and possibly reproductive system (9) IARC ) Not Listed CARCINOGEN. ( ) OSHA ) NTP

EMERGENCY FIRST AID PROCEDURES: Seek medical assistance for further treatment, observation and support if needed

For burns flush immediately with cool water. For fume irritation use eye drops and remove from EYE CONTACT:

exposure.

SKIN CONTACT: For burns flush immediately with cool water. If a rash develops from flux fumes, remove person from

exposure and wesh skin with soap and water.

Remove person from exposure to fumes. INHALATION:

MOR 001265

INGESTION:

NA

Page 4 of 4

KESTER SOLDER

MSDS Number: "245" Core

20 May 1993

Data Propared:

## SECTION 7 - PROCEDURES FOR MATERIAL CONTROL

iteps to be Taken If Material Is Spilled Or Released: Melted solder will solidify on cooling and can be acraped up. Use caution to avoid breathing fumes if a gas torch is used to cut up large pisces.

Waste Disposal Methods:

Solder can be recisimed.

CAUTION: Empty containers may contain product residue. Observe all label precautions.

Precautions to be Taken in Handling and Storage: Store away from sources of sulfur. Wash hands after handling solder containing lead before eating or smoking. Avoid breathing smoke / fumes generated during soldering. Do not place flux cored solder into a hot solder pot because the flux may ignite.

## SECTION 8 - PROTECTIVE MEASURES

Respiratory Protection: Usually not required. When ventilation is not sufficient to remove fumes from the breathing zone, a certridge type respirator should be worn.

Protective Gloves: Usually not required.

Eye Protection: When soldering, use goggles or face shield.

ventilation to be used:

Provide adequate exhaust ventilation (general and / or local) to meet TLV requirements

er Protective Clothing and Equipment: None.

Hygienic Work Practices: Wash hands thoroughly after handling solder containing lead before eating or smoking.

## SECTION 9 - ADDITIONAL INFORMATION

If the solder contains lead, these presentions are applicable.

This product contains lead which is known to the State of California to cause cancer, birth defects or other reproductive harm. Lead and its compounds have been placed in Class B2, probably carcinogenic to humans by USEPA.

IARC has placed lead and its compounds in Class 2B, possibly carcinogenic to humans.

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THE MOREY CORP.

The information contained berein is based on data considered accurate and is offered solely for information. consideration and investigation. Kester Solder extends no warranties, makes no representations and sesumes no responsibility as to the socuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by or under the direction of technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in their handling. Hazard communication regulations, U.S.A. Occupational Safety and Health Act (OSHA) and Canada Workplace Hazardous Materials Information System (WHMIS), require that employees must be trained how to use a Material Safery Date Sheet se

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100

Rec. 6/25/01

ISSUED 6/12/01 23:49:12 FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Page 1 of

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Item No.: Product Type: 5900 Silicone 20167

Elastomeric Rubber

COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients CAS No. 471-34-1 25-50 Calcium carbonate Poly(dimethylsiloxane), hydroxy terminated Poly(dimethylsiloxane), 70131-67-8 20 - 40dimethyl
Oximinosilane
Silica, amorphous, treated
CARBON BLACK
Stearic acid 63148-62-9 Proprietary 71889-01-5 1333-86-4 57-11-4 Methyl ethyl ketoxime Proprietary

\*\*\*When this product is exposed to moisture, up to 10% methyl ethyl ketoxime may be formed.

Ingredients which have exposure limits

Exposure Limits (TWA) OSHA OTHER Ingredients (TLV) (PEL) 15 mg/m3 dust 5 mg/m3 respir. 20 mppcf Calcium carbonate 10 mg/m3 dust None 10mg/m3 (Inhal) 3mg/m3 (Resp) 3.5 mg/m3 TWA Silica, amorphous, treated 6 mg/m3CARBON BLACK Methyl ethyl ketoxime 3.5 mg/m3 TWA 5ppm 3 ppm TWA 10 ppm STEL None None

Exposure Limits (STEL) ACGIH (TLV) Ingredients (PEL)

### HAZARDS IDENTIFICATION

Toxicity:

Skin and eye irritant. Moderately toxic ingestion.

ingestion.
When heated to temperatures above 300°F (150°C) in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde. Skin, ingestion, inhalation.

Primary Routes of Entry: Signs and Symptoms of Exposure:

Methyl ethyl ketoxime produced during cure is toxic and irritates eyes, nose and throat.

Existing Conditions Aggravated by Exposure: None known

| Ingredients                                                                                    | Literature Referenced<br>Target Organ and Other Health Effects |                            | Cinog                            | en<br>OSHA                 |  |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------|----------------------------------|----------------------------|--|
| Calcium carbonate<br>Poly(dimethylsiloxane),                                                   | NUI                                                            | NO                         | NO                               | NO                         |  |
| hydroxy terminated<br>Poly(dimethylsiloxane),                                                  | NTO                                                            | NO                         | NO                               | NO                         |  |
| dimethyl Oximinosilane Silica, amorphous, trea CARBON BLACK Stearic acid Methyl ethyl ketoxime | IRR<br>No Data                                                 | NO<br>NO<br>NO<br>NO<br>NO | NO<br>NO<br>NO<br>2B<br>NO<br>NO | NO<br>NO<br>NO<br>NO<br>NO |  |

MOR 001267

2B Possibly carcinogenic to humans BLO Blood
EYE Eyes
NTO No Target Organs
RES Respiratory

ALG Allergen CNS Central nervous system IRR Irritant NUI Nuisance dust

SOM Evidence of some carcinogenicity

Abbreviations

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3.

MATERIAL SAFETY DATA SHEET

Product Name: Item No.:

5900 Silicone 20167

### 4. FIRST AID MEASURES

Ingestion: Inhalation:

Do not induce vomiting. Keep individual calm. Obtain medical attention Remove to fresh air. If symptoms persist, obt If symptoms persist, obtain

Skin Contact:

medical attention.

Wipe off paste with paper towel or cloth.

Wash thoroughly with soap and water

Flush at least 15 minutes with water. Ob

medical attention.

Eye Contact:

## FIRE FIGHTING MEASURES

Method: Tag Closed Cup

Flash Point: More than 200°F Method: Tag Closed Control Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting
Procedures: Not available
Hazardous Products formed
by Fire or Thermal Decomp Formaldehyde, silica fume, oxides of carbon.
Unusual Fire or
Explosion Hazards: None

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Wipe or scrape up spilled material. Maintain good ventilation for large spills. Place scrap material in a well ventilated area and allow to cure to rubber.

#### HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer

Handling:

Store in a dry area below 90°F. Keep containers closed when not in use. Service 1-800-243-4874 for shelf life information) Avoid skin and eye contact. Avoid breathing vapor.

#### EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Safety glasses or goggles. Avoid contact lenses. Rubber or plastic gloves. Provide local ventilation for prolonged use in a confined area.

Ventilation:

Respiratory

Not available

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Black paste.

Odor: Boiling Point:

Mild. Not Applicable, Polymeric 7-8

Polymerized 1.31

Bolling Point:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

4.01%; 52.5 grams per liter Less than 5mm at 70°F. 3.0

Not available

## 10. STABILITY AND REACTIVITY

Stability: Hazardous Polymerization: Incompatibility:

Stable
Will not occur
Strong oxidizers. Polymerized by contact with
moisture.

Not available

Conditions to Avoid: Hazardous Decomposition Products (non-thermal):

Methyl ethyl ketoxime

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MATERIAL SAFETY DATA SHEET

Page 3 of 3

Product Name: Item No .:

5900 Silicone 20167

## TOXICOLOGICAL INFORMATION

See Section 3.

## ECOLOGICAL INFORMATION

No data available

## DISPOSAL CONSIDERATIONS

Recommended methods of

disposal:

Cured rubber can be incinerated or landfilled following EPA and local regulations

EPA Hazardous Waste

Number

NH - Not a RCRA Hazardous Waste Material

## 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or

Unrestricted Unrestricted

Division: Identification Number: Marine Pollutant:

None

IATA

None

1

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

## REGULATORY INFORMATION

CA Proposition 65:

WARNING:

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Traces of ethylene oxide, propylene oxide

and dioxane.

## 16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard: Fire Hazard: Reactivity Hazard: Specific Hazard:

0 No water

Estimated HMIS(R) Code:
 Health Hazard:
 Flammability Hazard:
 Reactivity Hazards:
 Personal Protection: 1 ō

See Section 8.

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist - Health & Regulatory Affairs
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
January 27, 1999 Revision: 0010

# DOW CORNING CORPORATION MATERIAL SAFETY DATA SHEET

Rec. 1/26/01

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Page 1

SILASTIC(R) E RTV SILICONE RUBBER BASE

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|Dow Corning Corporation | 24 Hour Emergency Telephone: (517) 496-5900 | South Saginaw Road | Customer Service: (517) 496-6000 | Midland, Michigan 48686 | Product Disposal Information: (517) 496-6315 | Transportation Information: (517) 496-8577 | CHEMTREC: (800) 424-9300

MSDS No: 1231197 Current Version: 08/29/96

Generic Description: Liquid silicone rubber.

Physical Form: Viscous Liquid

Color: White

Odor: Not reported

NFPA Profile: Health 1 Flammability 1 Reactivity 0

Note: NFPA = National Fire Protection Association

### | SECTION 2. OSHA HAZARDOUS COMPONENTS

| CAS Number    | Wtt | Component                                  | Exposure Limits                                                                                          |
|---------------|-----|--------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 068909206     | 26  | Trimethylated silica                       | Dow Corning guide: 5 mg/m3 Ceiling (as dust).                                                            |
| 068988896     | 7   | Dimethylvinylated and trimethylated silica | Dow Corning guide: 5 mg/m3 Ceiling (as dust).                                                            |
| None<br> <br> | 3   | Silylated titanium<br>dioxide              | Observe titanium dioxide<br>limits: OSHA PEL (final<br>rule) and ACGIH TLV: TWA<br>10 m g/m3 total dust. |

|Comments: The above components are hazardous as defined in 29 CFR 1910.1200.

## SECTION 3. EFFECTS OF OVEREXPOSURE

### Acute Effects

Eye: Direct eye contact may cause temporary discomfort with mild redness

and dryness similar to windburn.

Skin: A single prolonged exposure (24 to 48 hours) causes no known adverse

effect.

|Inhalation: No irritation to eyes and respiratory passages. No injury is likely|

from relatively short exposures of less than 8 hours.

Oral: Small amounts transferred to the mouth by fingers during use, etc.,

should not injure. Swallowing large amounts may cause digestive dis-

comfort.

Page 2

#### SILASTIC(R) E RTV SILICONE RUBBER BASE

Repeated Exposure Effects

Skin: None Known.

Inhalation: None Known.

Oral:

None Known.

## Special Hazards

This material contains the following components with the special hazards listed below.

Carcinogens

None Known

Teratogens

None Known

Mutagens

None Known

Reproductive Toxins

None Known

Sensitizers

None Known

Comments: When heated to temperatures above 180 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

|The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions component data and/or expert review of the product.

## SECTION 4. FIRST AID MEASURES

Immediately flush with water.

|Skin:

No first aid should be needed.

Inhalation: No first aid should be needed.

# DOW CORNING CORPORATION MATERIAL SAFETY DATA SHEET

Page 3

#### SILASTIC(R) E RTV SILICONE RUBBER BASE

Oral: No first aid should be needed.

Comments: Treat symptomatically.

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## SECTION 5. FIRE FIGHTING MEASURES

| Flash Point (Closed Cup): 212.00 DEGREE F / 100.00 DEGREE C

Autoignition Temperature: Not Determined

Flammability Limits in Air: Not Determined

Extinguishing Media: Water spray. Carbon dioxide (CO2). Dry chemical.

Foam. Water can be used to cool fire exposed con-

tainers.

Fire Fighting Procedures: Self-contained breathing apparatus and protective

clothing should be worn in fighting fires involving

chemicals.

Unusual Fire Hazards: None

## | Hazardous Decomposition Products:

|Thermal breakdown of this product during fire or very high heat conditions may | evolve the following hazardous decomposition products: Carbon oxides and traces | of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

|Containment/Clean-up: Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Mop up, or wipe up, or soak up with absorbent and contain for salvage or disposal. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials. Observe any safety precautions applicable to the cleaning material being used. For large spills, provide | diking or other appropriate containment to keep material from spreading. Observe all personal protection equipment recommendations described in Sections 5 and 8. Local, state, and federal reporting requirements may apply to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

NOTE: See Section 8 for Personal Protective Equipment for Spills

# DOW CORNING CORPORATION MATERIAL SAFETY DATA SHEET

Page 4 SILASTIC(R) E RTV SILICONE RUBBER BASE SECTION 7. HANDLING AND STORAGE |Handling: No special precautions. |Storage: No special precautions. Use reasonable care. SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Engineering Controls Local exhaust: None should be needed General Ventilation: Recommended Personal Protective Equipment For Routine Handling Eyes: Use proper protection - safety glasses as a minimum. Skin: Washing at mealtime and end of shift is adequate. Suitable Gloves: No special protection needed. Inhalation: No respiratory protection should be needed. Suitable Respirator: None should be needed. Personal Protective Equipment For Spills Use proper protection - safety glasses as a minimum. Eye: skin: Washing at mealtime and end of shift is adequate. |Inhalation/ Suitable Respirator: No respiratory protection should be needed. Precautionary Measures: Avoid eye contact. Use reasonable care. Comments: None Note: These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray applications, may require added precautions.

Page 5 SILASTIC(R) E RTV SILICONE RUBBER BASE SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Physical form: Viscous Liquid Color: White Odor: Not reported Specific Gravity @ 25C: 1.14 Viscosity: 800.00 P
Freezing/Melting Point: Not Applicable. Boiling Point: Not Available. Vapor Pressure @ 25C: Not Determined. Vapor Density: Not Determined. Solubility in Water: Not Determined. pH: Not Applicable. Volatile content: < 5.00 % Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications. SECTION 10. STABILITY AND REACTIVITY Chemical Stability: Stable. , Hazardous Polymerization: Hazardous polymerization will not occur. !Conditions to Avoid: None. |Materials to Avoid: Oxidizing material can cause a reaction. |Comments: None SECTION 11. TOXICOLOGICAL INFORMATION OPTIONAL SECTION - Complete information not yet available. SECTION 12. ECOLOGICAL INFORMATION OPTIONAL SECTION - Complete information not yet available.

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#### SILASTIC (R) E RTV SILICONE RUBBER BASE

SECTION 13. DISPOSAL INFORMATION

RCRA Hazard Class (40CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? N

| Federal Hazardous Waste Code: NA

Characteristic Waste: Ignitable: NA Corrosive: NA Reactive: NA

TCLP: NA

State or local laws may impose additional regulatory requirements regarding dis-

NA = Not Applicable

|Call Dow Corning Corporate Environmental Management, (517)496-6315, if addi-|tional information is required.

SECTION 14. TRANSPORT INFORMATION

DOT Information (49CFR 172.101)

Proper Shipping Name: Not Applicable

| Hazard Technical Name: Not Applicable

Hazard Class:

Not Applicable

UN/NA Number:

0000

Packing Group:

NA

0000 and NA - Not Applicable

Call Dow Corning Transportation, (517)496-8577, if additional information is required.

SECTION 15. REGULATORY INFORMATION

|Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR | 1910.1200

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

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#### SILASTIC(R) E RTV SILICONE RUBBER BASE

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances:

Section 304 CERCLA Hazardous Substances:

001330207

.2 Xylene

100.00 LB RQ

Section 312 Hazard Class:

Ŋ Acute:

Chronic:

N

Fire: N

Pressure: N

Reactive: N

 $Y = Yes \qquad N = No$ 

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

### Supplemental State Compliance Information

CAS Num-

Wt% Component

ber

### California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

None Known.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause birth defects or other reproductive harm.

None Known.

### Massachusetts

No ingredient regulated by MA Right-to-Know Law present.

New Jersey

068083192 63 Dimethyl siloxane, dimethylvinyl-terminated

Page 8 SILASTIC(R) E RTV SILICONE RUBBER BASE \_\_\_\_\_\_ Trimethylated silica 068909206 26 7 Dimethylvinylated and trimethylated silica3 Silylated titanium dioxide 068988896 None Pennsylvania 63 Dimethyl siloxane, dimethylvinyl-terminated 068083192 26 Trimethylated silica 068909206 068988896 7 Dimethylvinylated and trimethylated silica 3 Silylated titanium dioxide SECTION 16. OTHER INFORMATION |Prepared by: Dow Corning Corporation |This information is offered in good faith as typical values and not as a product| specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. +-----(R) indicates Registered or Trademark

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GE SILICONES

FORMAT: USA

MATERIAL SAFETY DATA SHEET COPYRIGHT GENERAL ELECTRIC CO.

PRODUCT: RTV133

SILICONE SEALANT

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY: GE SILICONES . 260 HUDSON RIVER RE

260 HUDSON RIVER ROAD WATERFORD, CT. 12188 SUPPLIED BY: GE SILICONES 260 HUDSON RIVER ROAD WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

(518) 237-3330

EMERGENCY PHONE (24 HRS)

(518) 237-3330

REVISED: 02/26/97 PREPARER: CE HANNIGAN

CHEMICAL FAMILY/USE: SILICONE RUBBER

FORMULA: MIXTURE

#### 2. COMPOSITION INFORMATION ON INGREDIENTS

| PRODUCT COMPOSITION/<br>CAS REG NO. | APPROX.<br>WGT, % | ACGIH<br>TV:A | TLV<br>STEL | OSHA<br>TWA | PEL<br>Stel | UNITS |
|-------------------------------------|-------------------|---------------|-------------|-------------|-------------|-------|
| •••••                               |                   |               |             |             |             |       |
| A. HAZARDOUS                        |                   |               |             |             |             |       |
| TIANIUM, BIS(ETHYL ACETO            | ACETATO) -        |               |             |             |             |       |
| DIISOPROPOXY-                       |                   |               |             |             |             |       |
| 27858-32-8                          | 1 · 5             | NE            | NA          | NE          | NA          | NA    |
| METHYLTRIMETHOXYSILANE              |                   |               |             |             |             |       |
| 1185-55-3                           | 1 · 5             | NA            | NE          | NA          | NE          | NA    |
| B. NON·HAZARDOUS                    |                   |               |             |             |             |       |
| VINYLSTOPPED PHENYLMETHY            | L POLYMER         |               |             |             |             |       |
| 68951-96-2                          | 5 · 10            | NA.           | NE          | AII         | NE          | AI1   |
| DINETHYL POLYSILOXANE SI            | LANOL/ST          |               |             |             |             |       |
| 70131 - 67 - 8                      | 30-60             | AA            | NE          | A4          | NE          | NA    |
| D4 & HHDZ TREATED SILICO            | N DIOXIDE         |               |             |             |             |       |
| 68937 51 9                          | 10-30             | 10            | NE          | 15          | NE          | MG/M3 |
| QUARTZ                              |                   |               |             |             |             |       |
| 14808 - 60 - 7                      | 10-30             | 0.1           | NE          | 0.1         | NE          | MG/M3 |

SEE SECTION 15 FOR DESCRIPTION OF ANY WHALS TRADE SECRET(S).

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This section not in use POTENTIAL HEALTH EFFECTS:

INGESTION:

MAY BE harmful if swallowed.

SKIN CONTACT:

UNCURED PRODUCT WILL IRRITATE LIPS, GUHS AND TONGUE.

UNCURED PRODUCT CONTACT MAY IRRITATE THE SKIN.

INHALATION:

CAUSES MILD RESPIRATORY IRRITATION.

APPLIES ONLY IN UNCURED STATE.

EYE CONTACT:

UNCURED PRODUCT CONTACT IRRITATES EYES.

MEDICAL CONDITIONS AGGRAVATED:

NONE KNOWN.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

NONE KNOWN.

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by

Provided By Electrical Insulation Suppliers Inc.

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NTP, IARC, or OSHA.
```

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Eves.

DERMAL · SKIN

OTHER:

METHANOL RELEASED DURING CURING. THIS PRODUCT CONTAINS METHYL-POLYSILOXANES WHICH CAN GENERATE FORMALDEHYDE AT APPROXIMATELY 300 DEGREES FARENHEIT (150°C) AND ABOVE, IN ATMOSPHERES WHICH CONTAIN OXYGEN. FORMALDEHYDE IS A SKIN AND RESPIRATORY SENSITIZER, EYE AND THROAT IRRITANT, ACUTE TOXICANT, AND POTENTIAL CANCER HAZARD. AN MSDS FOR FORMALDEHYDE IS AVAILABLE FROM GE SILICONES.

4. FIRST AID MEASURES

#### INGESTION:

RINSE MOUTH WITH WATER SEVERAL TIMES.

SKIN:

TO CLEAN FROM SKIN, REMOVE COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE WASHING WITH DETERGENT AND WATER. GET MEDICAL ATTN. IF IRRITATION PERSISTS.

INHALATION:

MOVE PERSON TO FRESH AIR.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention IF IRRITATION PERSISTS.

NOTE TO PHYSICIAN:

None Known.

#### 5. FIRE FIGHTING MEASURES

FLASH POINT: NA (C) NA (F) METHOD NA **IGNTIION TEMP** NA (C) NA (F) FLAMMABLE LIMITS IN AIR - LOWER(%): NA FLAMMABLE LIMITS IN AIR . UPPER(%): SENSITIVITY TO MECHANICAL IMPACT (Y/N): SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is NOT EXPECTED. EXTINGUISHING MEDIA: All standard firefighting media.

SPECIAL FIREFIGHTING PROCEDURES:

NONE KNOWN..

### 6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a container for disposal.

WASH WALKING SURFACES WITH DETERGENT AND WATER TO REDUCE SLIPPING HAZARD. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PRO-TECTIVE EQUIPMENT SECTION.

7. HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID CONTACT WITH SKIN AND EYES. CAUTION! COMBUSTIBLE. REMOVE CON-TACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGERTIPS, NAILS AND CUTICLES RESIDUAL SEALANT WAY REMAIN ON FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE SEVERE EYE IRRITATION. PRODUCT RELEASES METHANOL DURING APPLICATION AND CURING. (METHANOL TLV=200 PPM). UNCURED PRODUCT CONTACT IRRITATES EYES. UNCURED PRODUCT CONTACT MAY IRRITATE SKIN.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### ENGINEERING CONTROLS:

Eyewash stations.

Use in a well ventilated area.

Provided By Electrical Insulation Suppliers Inc.

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RESPIRATORY PROTECTION:
 USE IN A WELL VENTILATED AREA.
PROTECTIVE GLOVES:
 CLOTH GLOVES.
EYE AND FACE PROTECTION:
Safety glasses.
OTHER PROTECTIVE EQUIPMENT:
 NONE KNOWN.
VENTILATION:
 Use only in well ventilated area.
 9. PHYSICAL AND CHEMICAL PROPERTIES
PRODUCT INFORMATION:
BOILING POINT
 NA
 (C)
 NA
 (F)
VAPOR PRESSURE (20C)(MMHG)
 NEG.
VAPOR DENSITY (AIR=1)
 NEG.
FREEZING POINT
 NA
 (2)
 NA
 (F)
MELTING POINT
 NA
 (C)
 NA
 (F)
PHYSICAL STATE
 SOL ID
ODOR
 SWEET
COLOR
 BLACK
ODOR THRESHOLD (PPM)
 HHK
% VOLATILE BY VOLUME
 <4.9
EVAP.RATE (BUTYL ACETATE=1)
 <1
SPECIFIC GRAVITY (WATER=1)
 1.23
DENSITY (KG/M3)
 1230
ACID/ALKALINITY (MEQ/G)
 HHK
 NΑ
VOC (EPA METH.24) (G/L)
 <60
SOLUBILITY IN WATER (200)
 NEG
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): SLIGHT IN TOLUENE
 10. STABILITY AND REACTIVITY
STABILITY:
 STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:
 Carbon monoxide.
 Carbon dioxide.
 Silicon dioxide.
 METHANOL.
 FORMALDEHYDE
INCOMPATIBILITY (MATERIALS TO AVOID):
 NONE KNOWN.
CONDITIONS TO AVOID:
 NONE KNOWN.
 11. TOXICOLOGICAL INFORMATION
PRODUCT INFORMATION
ACUTE ORAL LD50 (MG/KG):
 NΑ
ACUTE DERNAL LD50 (MG/KG):
 NΑ
ACUTE INALATION LC50 (MG/L):
OTHER:
 None.
AHES TEST:
 UNKNOWN
 12. ECOLOGICAL INFORMATION
ECOTOXICOLOGICAL INFORMATION:
 No data at this time
CHEMICAL FATE INFORMATION:
 No data at this time
 13. DISPOSAL CONSIDERATIONS
DISPOSAL METHOD:
 Disposal should be made in accordance with federal, state and
 local regulations.
```

14. TRANSPORT INFORMATION

Provided By Electrical Insulation Suppliers Inc.

DOT SHIPPING NAME:

NONE

DOT HAZARD CLASS: NOT DOT REGULATED

DOT LABEL(S): UN/NA NUMBER: PLACARDS:

IATA:

NA NONE NA

IMO IMDG . CODE:

NA

EUROPEAN CLASS:
 RID (OCTI):

NA NA

ADR (ECE): RAR (IATA):

NA NA

### 15. REGULATORY INFORMATION

SARA SECTION 302:

None Found

SARA (311, 312) HAZARD CLASS:

ACUTE HEALTH HAZARD SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION: NA

WHMIS HAZARD CLASS:

D2B TOXIC HATERIALS WHHIS TRADE SECRET:

NONE

EXPORT:

SCHDLE B/HTSUS:

ECCN:

3910.00 SILICONES IN PRIMARY FORM.

HAZARD RATING SYSTEMS EAR99

HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 22
NFPA FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 22

CALIFORNIA PROPOSITION 65:

NONE

#### 16. OTHER INFORMATION

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTENT OF THE INTENDED USE......

THIS PRODUCT OR ITS COMPONENTS ARE ON THE AUSTRALLIAN INVENTORY (ACOIN)....

C = CEILING LIMIT NEGL = NEGLIGIBLE
EST= ESTIMATED NF = NONE FOUND
NA = NOT APPLICABLE UNKN = UNKNOWN
NE = NONE ESTABLISHED REC = RECOMMENDED
ND = NONE DETERMINED V = RECOMM. BY VENDOR

ND = NONE DETERMINED V = RECOMM. BY VE
BY-PRODUCT = REACTION BY- SKIN = SKIN
PRODUCT, TSCA INVENTORY TS = TRADE SECRET
STATUS NOT REQUIRED UNDER R = RECOMMENDED

STATUS NOT REQUIRED UNDER R = RECOLUTION R = RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION RECOLUTION

STEL = SHORT LIMIT EXPOSURE LIMIT NT = NOT TESTED

Provided By Electrical Insulation Suppliers Inc.

Rec. 126/01

|             |                            |                                                         | , ,                                                         |
|-------------|----------------------------|---------------------------------------------------------|-------------------------------------------------------------|
| SILASTIC(R) | E RTV SILICONE             | RUBBER CURING AGENT                                     | Page                                                        |
|             |                            |                                                         |                                                             |
|             |                            |                                                         |                                                             |
|             | CHEMICAL PRODUC            | T AND COMPANY IDENTIFICAT:                              | ION                                                         |
|             | g Corporation              |                                                         | Telephone:  (517) 496-5900                                  |
| South Sagi  | naw Road<br>Iichigan 48686 | •                                                       | r Service:  (517) 496-6000<br>Formation:  (517) 496-6315    |
| Midiand, M  | irchigan 40000             | •                                                       | formation:  (517) 496-8577                                  |
|             |                            | İ                                                       | CHEMTREC:   (800) 424-9300                                  |
| MSDS No:    |                            | +                                                       | Current Version: 03/01/96                                   |
| Gener       | ic Description:            | Silicone compound                                       |                                                             |
| 0002        | Physical Form:             | <del>-</del>                                            |                                                             |
|             | Color:                     |                                                         |                                                             |
|             |                            | Not reported                                            | Josephinika 1                                               |
|             | NFPA Profile:              | Health 1 Flammability 1 F                               | Reactivity 1                                                |
|             |                            | Protection Association                                  |                                                             |
|             |                            |                                                         |                                                             |
|             | OSHA HAZARDOUS             |                                                         |                                                             |
| TAS Number  |                            | Component                                               | Exposure Limits                                             |
| 068037592   | 34                         | Dimethyl, methylhydrogen siloxane                       | None established.                                           |
| 068988896   | 20                         | Dimethylvinylated and                                   |                                                             |
|             |                            | trimethylated silica                                    | mg/m3 Ceiling (as dust).                                    |
| Comments:   |                            | ents are hazardous as defi                              |                                                             |
|             |                            |                                                         |                                                             |
| SECTION 3.  | EFFECTS OF OVE             | REXPOSURE                                               |                                                             |
|             |                            |                                                         |                                                             |
| Acute Effe  | cts                        |                                                         |                                                             |
| Eye:        | Direct eye cont            | act may cause temporary di                              | scomfort with mild redness                                  |
| •           | and dryness sim            | ilar to windburn.                                       |                                                             |
| Skin:       | B minulo buslan            |                                                         | una) annuna un bunara adriana                               |
| SKID:       | effect.                    | ged exposure (24 to 46 hou                              | urs) causes no known adverse                                |
|             |                            |                                                         |                                                             |
| Inhalation  |                            | to eyes and respiratory pa<br>short exposures of less t | ssages. No injury is likel<br>han 8 hours.                  |
| Oral:       |                            |                                                         | r fingers during use, etc.,<br>unts may cause digestive dis |
| Donastad P  | comfort.  xposure Effects  |                                                         |                                                             |

Page 2

#### SILASTIC (R) E RTV SILICONE RUBBER CURING AGENT

Skin: None Known.

Inhalation: None Known.

Oral:

None Known.

### Special Hazards

This material contains the following components with the special hazards listed below.

#### Carcinogens

None Known

Teratogens

None Known

### Mutagens

None Known

Reproductive Toxins

None Known

#### Sensitizers

None Known

Comments: When heated to temperatures above 180 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions component data and/or expert review of the product.

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### SECTION 4. FIRST AID MEASURES

Eye: Immediately flush with water.

Skin: No first aid should be needed.

Inhalation: No first aid should be needed.

Oral: No first aid should be needed.

MOR 001283

Page 3

SILASTIC (R) E RTV SILICONE RUBBER CURING AGENT

Comments: Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

|Flash Point (Closed Cup):

> 213.98 DEGREE F / 101.10 DEGREE C

Autoignition Temperature:

Not Determined

|Flammability Limits in Air: Not Determined

Extinguishing Media:

Water spray. Carbon dioxide (CO2). Dry chemical. Foam. Water can be used to cool fire exposed con-

tainers.

|Fire Fighting Procedures:

Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency

plan.

Unusual Fire Hazards:

None

### Hazardous Decomposition Products:

|Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Formaldehyde. Hydrogen. Carbon oxides and traces of incompletely burned carbon compounds. Silicon |dioxide.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

|Containment/Clean-up: Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Determine whether to evacuate or isolate the area depending on such specific factors as site location, population density, traffic flow, size of the release or spill, weather conditions, the material's hazards and risks to people, and whether a fire is underway or possible. Mop up, wipe up, or soak up with absorbent and place in a vented container for salvage or disposal. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. For nonsilicones, use typical industrial cleaning materials. Observe any safety precautions applicable to the cleaning material being used. For large spills, provide diking or other appropriate containment to keep material from spreading. Observe all personal protection equipment recomPage 4

#### SILASTIC (R) E RTV SILICONE RUBBER CURING AGENT

mendations described in Sections 5 and 8. Local, state, and | federal reporting requirements may apply to spills or releases of this material into the environment. See applicable | regulatory compliance information in Section 15.

| NOTE: See Section 8 for Personal Protective Equipment for Spills

.................

SECTION 7. HANDLING AND STORAGE

|Handling: No special precautions.

|Storage: Product evolves minute quantities of flammable hydrogen gas. Do not repackage or store in unvented containers. Adequately ventilate the work area to maintain vapors well below established flammability limits and exposure guidelines. Keep container closed and store away from wa-

ter or moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Local exhaust: None should be needed

General Ventilation: Recommended

Personal Protective Equipment For Routine Handling

|Eyes: Use proper protection - safety glasses as a minimum.

Skin: Washing at mealtime and end of shift is adequate.

|Suitable Gloves: No special protection needed.

Inhalation: No respiratory protection should be needed.

Suitable Respirator: None should be needed.

Personal Protective Equipment For Spills

Eye: Use proper protection - safety glasses as a minimum.

Skin: Washing at mealtime and end of shift is adequate.

|Inhalation/

Suitable Respirator: No respiratory protection should be needed.

| Precautionary Measures: Avoid eye contact. Use reasonable care.

Page 5 SILASTIC(R) E RTV SILICONE RUBBER CURING AGENT Comments: None Note: These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray applications, may require added precautions. SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Physical form: Liquid Color: White Odor: Not reported Specific Gravity @ 25C: 0.99
Viscosity: 3200.00 CST Freezing/Melting Point: Not Applicable. Boiling Point: Not Available. Vapor Pressure @ 25C: < 5.00 MM HG Vapor Density: Not Determined. Solubility in Water: Not Determined. pH: Not Applicable. Volatile content: 2.00 % Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications. SECTION 10. STABILITY AND REACTIVITY Chemical Stability: Stable. Hazardous Polymerization: Hazardous polymerization will not occur. Conditions to Avoid: None. |Materials to Avoid: Oxidizing material can cause a reaction. Comments: Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air. SECTION 11. TOXICOLOGICAL INFORMATION \_\_\_\_\_ OPTIONAL SECTION - Complete information not yet available. SECTION 12. ECOLOGICAL INFORMATION

Page 6

SILASTIC(R) E RTV SILICONE RUBBER CURING AGENT

OPTIONAL SECTION - Complete information not yet available.

SECTION 13. DISPOSAL INFORMATION

RCRA Hazard Class (40CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Y

|Federal Hazardous Waste Code: NA

Characteristic Waste: Ignitable: NA Corrosive: NA Reactive: D003

TCLP: NA

State or local laws may impose additional regulatory requirements regarding disposal.

NA = Not Applicable

|Call Dow Corning Corporate Environmental Management, (517)496-6315, if additional information is required.

SECTION 14. TRANSPORT INFORMATION

DOT Information (49CFR 172.101)

Proper Shipping Name: Not Applicable

|Hazard Technical Name: Not Applicable

| Hazard Class: Not Applicable

UN/NA Number: Not Applicable

Packing Group:

Not Applicable

Call Dow Corning Transportation, (517)496-8577, if additional information is required.

SECTION 15. REGULATORY INFORMATION

|Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

-----

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

Page 7

### SILASTIC (R) E RTV SILICONE RUBBER CURING AGENT

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances:

None

Section 304 CERCLA Hazardous Substances:

001330207

. 4 Xylene 100.00 LB RO

Section 312 Hazard Class:

Acute: N

Chronic:

Fire: N

Pressure: N

Reactive: Y

 $Y \approx Yes \qquad N = No$ 

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

#### Supplemental State Compliance Information

CAS Num-

Wtb Component

ber

### California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

None Known.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause birth defects or other reproductive harm.

None Known.

### Massachusetts

No ingredient regulated by MA Right-to-Know Law present.

New Jersey

068083192

43 Dimethyl siloxane, dimethylvinyl-terminated

Page 8 SILASTIC (R) E RTV SILICONE RUBBER CURING AGENT Dimethyl, methylhydrogen siloxane
Dimethylvinylated and trimethylated silica
Tetramethyl tetravinyl cyclotetrasiloxane 068037592 068988896 002554065 Pennsylvania 068988896 20 Dimethylvinylated and trimethylated silica Dimethyl siloxane, dimethylvinyl-terminated Dimethyl, methylhydrogen siloxane 068083192 068037592 SECTION 16. OTHER INFORMATION Prepared by: Dow Corning Corporation This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recom-|mended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. (R) indicates Registered or Trademark

This is the last page.

### MATERIAL SAFETY DATA SHEET SLIDE PRODUCTS, INC. 430 S. WHEELING RD. WHEELING, IL 60090

Pec. 8/13/99

PRODUCT NAME: SLIDE EPOXEASE AEROSOL

EMERGENCY TELEPHONE: 800-535-5053 INFORMATION TELEPHONE: 847-541-7220

D.U.N.S. NUMBER: 00-299-4168 PREPARED BY: MICHAEL MUTH

**REVISION DATE: 6-1-97** PRODUCT NUMBER: 40616T FAX NUMBER: 847-541-7986

### SECTION I. IDENTIFICATION

CHEMICAL NAME: SYNTHETIC WAX DISPERSION CHEMICAL FAMILY: SYNTHETIC WAX

FORMULA: 40616T

SYNONYMS: EPOXEASE

DOT HAZARD CLASSIFICATION: ORM-D

DOT SHIPPING NAME: CONSUMER COMMODITY

CHEMICAL ABSTRACT REGISTRY NUMBER: N/A, MIXTURE

**IDENTIFICATION NUMBER: NONE** 

H.M.I.S. RATING: 1,3,0,1

#### SECTION II. PHYSICAL DATA

#### DATA IN SECTION II APPLIES TO CONCENTRATE BEFORE ADDING PROPELLANT

BOILING POINT: 103-337 DEGREES F. FREEZING POINT: < -40 DEGREES F. SPECIFIC GRAVITY: (H20 =1): 1.02 WEIGHT PER GALLON @ 60 F.: 8.58 VAPOR PRESSURE @, 70 F. (MM HG): 350 VAPOR DENSITY (AIR = 1): > 1SOLUBILITY IN WATER, % BY WT.: NIL PERCENT VOLATILE BY WEIGHT: 96

**EVAPORATION RATE (MINUTES): 20** 

APPEARANCE AND ODOR: OPAQUE BROWN LIQUID - CHLORINATED SOLVENT ODOR

### SECTION III. HAZARDOUS INGREDIENTS

| MATERIAL:               | APPROX. WEIGHT %:  | CAS NUMBER:             | PEL (OSHA) |
|-------------------------|--------------------|-------------------------|------------|
| TRICHLOROETHYLENE **    | 55-65              | 79-01-6                 | 100 PPM    |
| PROPANE A-108           | 10-20              | 74-98-6                 | 1000       |
| ALIPHATIC NAPHTHA       | 20-26              | 68513-03-1*             | 130        |
| SYNTHETIC WAX           | 1-6                | MIXTURE                 | N/A        |
| ##CONTAINS NO OZONE DEF | PLETING CHEMICALS# | ##                      |            |
| ALL COMPONENTS OF THIS  | PRODUCT ARE LISTE  | D ON THE TSCA DIRECTOR' | Y          |

\*\*)SEE SECTIONS X AND XI FOR DETAILED CAUTIONS

### SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE LIMITS IN AIR: LEL: 1.0 **UEL: 9.5** (VOLUME %)

FLASH POINT: N/A

SPECIAL FIRE FIGHTING PROCEDURES: CHLORINATED HYDROCARBON FORM HCL, HF AND TRACES OF PHOSGENE UPON PYROLYSIS.

UNUSUAL FIRE & EXPLOSION HAZARDS: AEROSOLS MAY RUPTURE VIOLENTLY AT TEMPERATURES ABOVE 120' F.

MATERIAL SAFETY DATA SHEET SLIDE PRODUCTS, INC. 40616T

PAGE 2

#### SECTION V. REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN
HAZARDOUS COMBUSTION BY-PRODUCTS: SEE SECTION IV
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: TEMP. ABOVE 120' F. - DIRECT SUNLIGHT

#### SECTION VI. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 100 PPM

### \* EFFECTS OF OVEREXPOSURE \*

INGESTION (SWALLOWING): N/A

INHALATION: GIDDINESS, NAUSEA, POSSIBLE NARCOSIS

SKIN CONTACT: DEFAITING OF SKIN EYE CONTACT: TEMPORARY IRRITATION

### \* EMERGENCY AND FIRST AID PROCEDURES \*

SKIN: WASH WITH SOAP AND WATER, APPLY HAND CREAM INHALATION: REMOVE TO FRESH-AIR LOCATION AWAY FROM EXPOSURE EYES: RINSE WITH PLENTY COOL CLEAN WATER UNTIL IRRITATION SUBSIDES

#### SECTION VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: REMOVE LEAKING CONTAINER TO OUTSIDE DISPOSAL SITE.

WASTE DISPOSAL METHOD: EMPTY FULLY, INCLUDING GAS PRESSURE. DO NOT PUNCTURE OR INCINERATE. CAN MAY BE RECYCLED OR ALTERNATIVELY REMOVED TO A SANITARY LANDFILL - CHECK APPLICABLE REGULATIONS.

### SECTION VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (SPECIFY TYPE): NOT NEEDED WITH ADEQUATE VENTILATION VENTILATION: ADEQUATE VENTILATION RECOMMENDED PROTECTIVE GLOVES: RECOMMENDED BUT NOT REQUIRED EYE PROTECTION: PROPER EYE CARE IS NEEDED IN ALL INDUSTRIAL OPERATIONS OTHER PROTECTIVE EQUIPMENT: AS REQUIRED BY YOUR COMPANY

### SECTION IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE INDOORS AWAY FROM HEAT SOURCES OR DIRECT SUNLIGHT - DO NOT PUNCTURE OR INCINERATE - DO NOT DROP!

OTHER PRECAUTIONS: AVOID OVER-SPRAYING ONTO FLOORS OR SLIPPERY SURFACE MAY RESULT.

MATERIAL SAFETY DATA SHEET SLIDE PRODUCTS, INC. 40616T

PAGE 3

#### SECTION X. EFFECTS OF PROLONGED EXPOSURE

TRICHLOROETHYLENE: PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION. MAY BE ABSORBED THROUGH SKIN TO SOME DEGREE. EXCESSIVE INHALATION CAUSES IRRITATION TO UPPER RESPIRATORY TRACT AND MAY INCREASE SENSITIVITY TO EPINEPHRINE, AND INCREASED MYOCARDIAL IRRITABILITY (IRREGULAR HEART BEATS). MINIMAL ANESTHETIC EFFECTS AT LEVELS OF 200-400 PPM, DIZZINESS AT HIGHER LEVELS: AT 1000-2000 PPM UNCONSCIOUSNESS AND DEATH. CONCENTRATIONS OVER 6000 PPM ARE IMMEDIATELY HAZARDOUS TO LIFE. LC50 FOR RATS IS 12,500 PPM FOR 4 HOURS. ALCOHOL WILL ENHANCE ADVERSE EFFECTS. EXCESSIVE EXPOSURE MAY CAUSE LIVER OR KIDNEY EFFECTS: LOWER CONCENTRATIONS ABOVE ACCEPTED GUIDELINES MAY CAUSE CENTRAL OR PERIPHERAL NERVOUS SYSTEM EFFECTS.

#### SECTION XI. CARCINOGENIC HAZARD

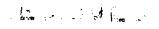
PROLONGED EXPOSURE ABOVE THE OSHA PERMISSIBLE LIMITS MAY RESULT IN LIVER AND KIDNEY DAMAGE. TRICHLOROETHYLENE HAS BEEN EXTENSIVELY STUDIED FOR CHRONIC EFFECTS IN ANIMALS. WHILE THERE ARE STUDIES IN WHICH TUMORS WERE INDUCED IN MICE, THERE IS NO DOCUMENTED EVIDENCE THAT EXPOSURE TO TRICHLOROETHYLENE PRODUCES CANCER IN HUMANS. THRICHLOROETHYLENE IS LISTED IN GROUP 2A BY IARC BUT IS NOT LISTED BY NTP OR OSHA.

### SECTION XII. SARA TITLE III REPORTING

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS REQUIRED TO BE REPORTED UNDER SARA TITLE III, SECTION 313: TRICHLOROETHYLENE, CAS NUMBER 79-01-6 REPORTING REQUIREMENTS UNDER SECTION 304 (CERCLA) ARE 1000 POUNDS OR OVER.

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCTS SPECIFICATION. NO WARRANTY, EXPRESS OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE. THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS BELIEVED TO BE CORRECT AS OF THIS DATE. THE REGULATIONS PROMULGATED BY OSHA FOR HAZARD COMMUNICATION, 29 CFR 1910.1200, AS WELL AS SEVERAL STATE AND LOCAL LAWS AND REGULATIONS, HAVE BEEN CONSULTED IN PREPARING THIS M.S.D.S.





APR 15 1998

T' : " Page 1 of 3

Chemtrec:

CAS#7439-92-1

### **Material Safety Data Sheet**

Manufacturer:

Christopher Associates/Koki Co., Ltd.

2601 South Oak Street

Santa Ana, CA 92707

Phone Numbers:

(714)979-7500

(800)424-9300 Date: 3.1.93

### SECTION I - IDENTITY INFORMATION

Product Name:

SS4-M951K

Solder Paste

Chemical Name: Chemical Family:

Tin/Lead/Silver Alloy

Fermula:

Mixture

## **SECTION II - HAZARDOUS INGREDIENTS**

% **TLV Units** CAS# **Principal Components** (Chemical & Common Names) 32 Lead 0.15ppm 7439-92-1 Lead 62 Tin 2 ppm 7440-31-5 Tin N/A Gum Rosin 3 Normal Chain Fatty Acid <1 N/A

This product contains a chemical (lead) subject to 313, SARA Title III.

### SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

230°C Boiling Point (°C): Melting Point (°C): 183°C Freezing Point (°C): <-10 Specific Gravity (water = 1) 6.0 Vapor Pressure (mmHg)(at 20°C) 0.01 Vapor Density (air = 1): 5.6 % Volatile By Volume (%): <5 Evaporation Rate (BuAc = 1). 0.01 Solubility in Water: Insoluble

Solubility in Organic Solvent: Soluble (Partially) Acetone, Ethyl Acetate

Physical State: Paste Color. Pale Grey pH: 5.0

Odor. Plant Oil (Mild)

### **SECTION IV - FIRE & EXPLOSION DATA**

Flashpoint (°C): Ignition point (°C):

Flammable Limits In Air % By Volume: Acidity/Alkalinity

Extinguishing Media:

Special Firefighting Procedures: Unusual Fire and Explosion Hazards: 120 <300

> Unknown Mildly Acidic

CO2, Foam, Sand, Water

None Known None Known

MOR 001293

Product:

SS4-M951K

Page 2 of 3

### **Material Safety Data Sheet**

Manufacturer:

Christopher Associates/Koki Co., Ltd.

2601 South Oak Street

Santa Ana, CA 92707

Phone Numbers:

(714)979-7500

Chemtrec:

(800)424-9300

| SECTION V- PHYSICAL HAZARD |
|----------------------------|
|----------------------------|

Stability:

Conditions to Avoid:

Incompatible Materials to Avoid:

Hazardous Decomposition Products:

Hazardous Polymerization:

(x) Stable

Extreme Heat Alkaline Materials

Lead

() May Occur (x) Will Not Occur

() Unstable

### SECTION VI - HEALTH HAZARDS

Toxicity:

Lead

Ingestion:

May cause stomach discomfort. Can cause vomiting, nausea, diarrhea, and paralysis. Irritation of the

mouth, throat and stomach.

Skin contact:

Mild irritant.

Inhalation: Causes respiratory irritation.

Eye contact:

Irritates eyes.

Chronic Effects of Overexposure:

Muscle pain. Stomach and muscle paralysis. Liver and kidney damage.

Medical Conditions Generally Aggravated By Overexposure:

Chemical Listed as Carcinogen or Potential Carcinogen?:

No

None Known

National Toxicity Program (NTP): IARC Monographs:

Yes () Yes

No (x)

OSHA:

() Yes

(x) No (x) No

OSHA Permissible Exposure Limit (PEL):

ACGIH Threshold Limit Value (TLV):

0.15ppm

N/D

Other Exposure Limit Used:

Acute Oral LD50, 100~200 mg/kg (Guinea Pig)

### **Emergency and First Aid Procedures:**

- 1. Inhalation: Move person to fresh air.
- 2. Eyes: In case of contact, immediately flush eyes with large amounts of water for at least 15 minutes and get medical attention if irritation persists.
- persists. 3. Skin: Clean skin with solvent (Alcohol), wash skin with soap. Seek medical attention if irritation
- Ingestion: Rinse mouth with water several times, seek medical attention immediately. 4.

Product:

SS4-M951K

Page 3 of 3

### Material Safety Data Sheet

Manufacturer:

Christopher Associates/Koki Co., Ltd.

2601 South Oak Street

Phone Numbers: (714)979-7500

Santa Ana, CA 92707

Chemtrec: (800)424-9300

### SECTION VII - SPECIAL PROTECTION INFORMATION

Respiratory Type Protection:

NIOSH Approved Corrosive Resistant Respirator.

Ventilation:

Use only in a well ventilated area.

Local Exhaust: Recommended

Mechanical:

Recommended

Special: Other:

N/A N/A

Protective Gloves:

**Plastic** 

Other Protective Clothing or Equipment: Safety Shower, Eye Bath, Apron, Mask, Chemical Safety Glasses, monogoggles

### ÍSECTION VIII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be taken in handling/storage:

Store in a refrigerated space, away from bases or oxidizers. Do not store

at extreme temperatures.

Do not store near sources of ignition. Keep container closed when not in use.

Other Precautions: Do not consume food or drinks near product.

Steps to be taken in case material is spilled or released:

Wipe, scrape, or soak up in an inert non-combustible material and put in a container for disposal. This solder paste contains lead, and must be disposed of according to all local, state, and federal regulations.

Waste Disposal Methods:

Dispose of according to all local, state, and federal regulations.

Proper Shipping Name:

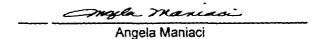
Solder Paste

D.O.T. Class:

Not Regulated

Hazardous Classification:

Solder Paste/Mixture



The information contained herein is, to our knowledge, true and accurate. Because conditions of use are beyond our control, we mak no warranty or representation, expressed or implied, except that the products discussed herein conform to the chemical description shown on their labels. Nothing contained herein should be construed as permission or recommendation to infringe any patent. h agent, representative, or employee of this company is authorized to vary any terms of this notice.

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MATERIAL SAFETY DATA SHEET

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Rec. 9/8/00 50

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

SOLVENTLESS ACTVT 18109

Item No.: Product Type:

Primer

### COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients CAS No. Hydroxyalkyl methacrylate METHACRYLIC ACID 2.6-DI-tert-BUTYL-p-CRESOL 27813-02-1

Organocopper compound

95-100 0.1-2 0.1-1 0.1-1 79-41-4-128-37-0 13395-16-9

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients

(TLV)

OSHA (PEL)

OTHER

Hydroxyalkyl methacrylate

None 20 ppm TWA 70 mg/m3 None 20 ppm TWA skin 4 70 mg/m3 skin 1

1 ppm TWA 3 ppm STEL 4 ppm skin 10 ppm skin

METHACRYLIC ACID 2,6-DI-tert-BUTYL-p-CRESOL Organocopper compound

None None 10 m Cu 0.2mg/m3fume Cu 0.1mg/m3 TWA None Cu 1 mg/M3 dust Cu 1 mg/M3 dust

10 ppm skinSTEL 10 mg/m3

Exposure Limits (STEL) Ingredients

(TLV)

OSHA (PEL)

### HAZARDS IDENTIFICATION

Toxicity:

Severe eye irritant. Moderate skin irritant. Possible inhalation irritant. May be harmful if swallowed. May cause kidney or liver damage. Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg. Eye, skin, inhalation, ingestion.

Primary Routes of Entry: Signs and Symptoms of Exposure:

May cause severe dermatitis on prolonged contact in sensitive individuals.

Existing Conditions
Aggravated by Exposure:

None known

Literature Referenced Target Organ and Other Health Effects Carcinogen NTP IARC 0 OSHA Ingredients

Hydroxyalkyl methacrylate METHACRYLIC ACID 2,6-DI-tert-BUTYL-p-CRESOL Organocopper compound

ALG IRR ALG COR IRR IRR MUT BLO IRR KID LIV

NO NŎ NO ÑŎ N/A NO NO

Abbreviations

N/A Not Applicable

BLO Blood IRR Irritant LIV Liver

ALG Allergen COR Corrosive KID Kidney MUT Mutagen

MOR 001296

### 4. FIRST AID MEASURES

Ingestion: Inhalation: Do not induce vomiting. Keep individual calm. Obtain medical attention. Remove to fresh air. If symptoms persist, obtain medical attention Wash with soap and water. Flush at least 15 minutes with water. Obtain medical attention.

Skin Contact: Eye Contact:

### FIRE FIGHTING MEASURES

Flash Point: Recommended

More than 200°F

Method: Tag Closed Cup

Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting
Procedures: Not available
Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors; oxides of carbon.

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MATERIAL SAFETY DATA SHEET

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Product Name:

SOLVENTLESS ACTVT 1 LT CN 18109

Item No.:

Unusual Fire or

Explosion Hazards:

None

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Soak up in an inert absorbent. Store in filled, closed container until disposal. Store in a partly

### HANDLING AND STORAGE

Safe Storage:
 (Contact Loctite Customer
Handling:

Store below 100°F Service 1-800-243-4874 for shelf life information) Avoid prolonged skin contact. Keep away from eyes. Avoid prolonged breathing of vapors.

### EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin;

Ventilation:

Safety glasses or goggles. Neoprene or latex gloves. Sufficient to maintain vapor concentration below

Not available Respiratory

See Section 2 for Exposure Limits.

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor: Boiling Point:

Pale blue liquid Slightly acrylic 57°C at 0.5mm Approximately 5 13% 1.07

Bolling Point:
pH:
Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Ether = 1)

Not available 0.05mm at 68°F Approximately 1

Not available

### STABILITY AND REACTIVITY

None

Stable Will not occur Oxidizing and reducing agents. Not available

Stability:
Hazardous Polymerization:
Incompatibility:
Conditions to Avoid:
Hazardous Decomposition
Products (non-thermal):

See Section 3.

### ECOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

No data available

### DISPOSAL CONSIDERATIONS

Recommended methods of disposal: EPA Hazardous Waste

Incinerate following EPA and local regulations.

Number

NH - Not a RCRA Hazardous Waste Material

### 14. TRANSPORTATION INFORMATION

Unrestricted

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name:
Hazard Class or
Division:
Identification Number:
Marine Pollutant:

Unrestricted None

None

IATA

Proper Shipping Name: Class or Division: UN or ID Number:

Unrestricted Unrestricted

None

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No.:

į

SOLVENTLESS ACTVT 1 LT CN 18109

15. REGULATORY INFORMATION

CA Proposition 65:

Not available

16. OTHER INFORMATION

Estimated NFPA(R) Code:
 Health Hazard:
 Fire Hazard:
 Reactivity Hazard:
 Specific Hazard:

Does not apply

Estimated HMIS(R) Code:
Health Hazard:
Flammability Hazard:
Reactivity Hazards:
Personal Protection:

See Section 8.

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

NFPA is a registered HMIS is a registered

Prepared By: Title: Company: (24hr.) Phone: Revision Date:

Stephen Repetto Research Chemist- Safety, Health&Regulatory Affairs Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 (860) 571-5100
January 26, 1999 Revision: 0020

Page 1 Date Printed 2/9/99 MSDS No: M00646

Material Safety Data Sheet

Rec. 8/17/99

TMC# 12259/0

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Hydroxide 8.00 ± 0.04N

Catalog Number: 14381

Hach Company P.O.Box 389 Loveland, CO USA 80539 (970) 669-3050

MSDS Number: M00646 Chemical Name: Not applicable CAS No.: Not applicable

Chemical Formula: Not applicable Chemical Fumily: Not applicable

Hazard: Causes burns.

Date of MSDS Preparation:

Day: 21
Month: Scptember
Year: 1998

Emergency Telephone Numbers: (Medical and Transportation) (303) 623-5716 24 Hour Service (515)232-2533 8am - 4pm CST

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Sodium Hydroxide

CAS No.: 1310-73-2

TSCA CAS Number: 1310-73-2 Percent Range: 25.0 - 35.0

Percent Range Units: weight / volume LD50: Oral rat LDLo = 500 mg/kg.

LC50: Nonc reported TLV: 2 mg/m³
PEL: 2 mg/m³

Hazard: Causes severe burns. Toxic.

Demineralized Water

CAS No.: 7732-18-5

TSGA CAS Number: 7732-18-5 Percent Range: 65.0 - 75.0

Percent Range Units: volume / volume

LD50: None reported LC50: None reported TLV: Not established PEL: Not established

Hazard: No effects anticipated.

### 3. HAZARDS IDENTIFICATION

Emergency Overview:

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Appearance: Clear, colorless liquid

Odor: Nonc

CAUSES SEVERE BURNS

HMIS:

Health: 3

Flammability: 0

Reactivity: 1

Protective Equipment: X - See protective equipment, Section 8.

NFPA:

Health: 3

Flammability: 0

Reactivity: 1

Symbol: Not applicable

Potential Health Effects:

Eve Contact: Causes severe burns

Skin Contact: Causes severe burns May cause: scarring

Skin Absorption: None reported Target Organs: None reported

Ingustion: Causes: severe burns May cause: abdominal pain collapse death

Target Organs: None reported

Inhalation: Causes: severe burns May cause: pneumonitis

Target Organs: None reported

Medical Conditions Aggravated: Pre-existing: Eye conditions Skin conditions Respiratory conditions

Chronic Effects: Chronic overexposure may cause destruction of any tissue contacted

Cancer / Reproductive Toxicity Information:

This product does NOT contain any OSHA listed cardinogens.

This product does NOT contain any IARC listed chemicals.

This product does NOT contain any NTP listed chemicals.

Additional Cancer / Reproductive Toxicity Information: None reported Toxicologically Synergistic Products: None reported

### 4. FIRST AID

Eve Contact: Immediately flush eyes with water for 15 minutes. Call physician.

Skin Contact (First Aid): Wash skin with plenty of water for 15 minutes. Remove contaminated clothing. Call physician immediately.

Ingestion (First Aid): Do not induce vomiting. Give 1-2 glasses of water. Never give anything by mouth to an unconscious person. Call physician immediately.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. Call physician,

### 5. FIRE FIGHTING MEASURES

Flammable Properties: Not Flammable, but reacts with most metals to form flammable hydrogen gas. Flush Point: Not applicable

Method: Not applicable Flammability Limits:

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Lower Explosion Limits: Not applicable Upper Explosion Limits: Not applicable Autoignition Temperature: Not applicable

Hazurdous Combustion Products: This material will not burn.

Fire / Explosion Hazards: This product will not burn or explode. Contact with metals gives off hydrogen gas

which is flammable

Static Discharge: None reported. Mechanical Impact: None reported

Extinguishing Media: Use media appropriate to surrounding fire conditions

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full

protective gear. Evacuate area and fight fire from a safe distance.

### 6. ACCIDENTAL RELEASE MEASURES

Spill Response Notice:

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance, Containment Technique: Releases of this material may contaminate the environment. Absorb spilled liquid with non-reactive sorbent material. Stop spilled material from being released to the environment. Dike the spill to contain material for later disposal.

Clean-up Technique: Cover spilled material with a dry acid, such as citric or boric. Scoop up slurry into a large beaker. Adjust to a pH between 6 and 9 with an acid, such as sulfuric or citric. Flush reacted material to the drain with a large excess of water. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate general area (50 foot radius or as directed by your facility's emergency response plan) when: a gallon or more of liquid is spilled. If conditions warrant, increase the size of the evacuation.

Special Instructions (for accidental release): Product is regulated as RCRA hazardous waste. Product is regulated as a hazardous water pollutant.

304 EHS RQ (40 CFR 355): Not applicable

D.O.T. Emergency Response Guide Number: 154.

### 7. HANDLING / STORAGE

Hundling: Avoid contact with eyes skin clothing Do not breathe mist or vapors. Wash thoroughly after

handling. Maintain general industrial hygiene practices when using this product.

Storage: Store in a cool, dry place. Keep away from: heat acids / acid fumes.

Flammability Class: Not applicable

### 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

Engineering Controls: Have an eyewash station nearby. Have a safety shower nearby. Maintain general industrial hygiene practices when using this product.

Personal Protective Equipment:

Eye Protection: safety glasses with top and side shields Skin Protection: disposable latex gloves lab coat

Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with: eyes skin clothing Do not breathe: mist/vapor Wash thoroughly after handling. Use with adequate ventilation. Keep away from: acids/acid fumes heat

TLV: Not established PEL: Not established

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MSDS No: M00646

### 9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid

Physical State: Liquid

Molecular Weight: Not applicable

Odor: None pH: 14

Vupor Pressure: Not determined

Vapor Density (air = 1): Not determined

Boiling Point: ~ 100°C (212°F)

Melting Point: Not determined

Specific Gravity (water = 1): 1.28

Evaporation Rate (water = 1): 0.19

Volatile Organic Compounds Content: None

Partition Coefficient (n-octanol/water): Not applicable;

Solubility:

Water: Miscible
Acid: Miscible
Other: Not determined

Metal Corrosivity:

Steel: 0.00 in/yr (0.00 mm/yr)

Aluminum: > 20 in/yr (> 508 mm/yr)

### 10. STABILITY / REACTIVITY

Chemical Stability: Stable when stored under proper conditions.

Conditions to Avoid: Evaporation Extreme temperatures

Reactivity / Incompatibility: Incompatible with: acids halogenated organic compounds nitro compounds

inctals

Hazardous Decomposition: None reported Hazardous Polymerization: Will not occur.

### 11. TOXICOLOGICAL INFORMATION

Product Toxicological Data:

LD50: None reported

LC50: None reported

Dermal Toxicity Data: None reported

Skin and Eye Irritation Data: None reported

Mutation Data: None reported

Reproductive Effects Data: None reported

Ingredient Toxicological Data: Sodium Hydroxide: Oral rat LDLo = 500 mg/kg; skin and eye irritation test

data reported in RTECS.

### 12. ECOLOGICAL INFORMATION

Product Ecological Information: --

No ecological data available for this product.

Ingredient Ecological Information: -

No ecological data available for the ingredients of this product.

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### 13. DISPOSAL CONSIDERATIONS

EPA Waste ID Number: D002

Special Instructions (Disposal): Dilute to 3 to 5 times the volume with cold water. Adjust to a pH between 6 and 9 with an acid, such as sulfuric or citric. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system.

Empty Containers: Rinse three times with an appropriate solvent. Dispose of empty container as normal trash. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste. NOTICE (Disposal): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

### 14. TRANSPORT INFORMATION

D.O.T.:

D.O.T. Proper Shipping Name: Sodium Hydroxide Solution

DOT Hazard Class: 8 DOT Subsidiary Risk: NA DOT ID Number: UN1824 DOT Packing Group: II

I.C.A.O.:

I.C.A.O. Proper Shipping Name: Sodium Hydroxide Solution

ICAO Huzard Class: 8
ICAO Subsidiary Risk: NA
ICAO ID Number: UN1824
ICAO Packing Group: II
I.M.O.;

I.M.O. Proper Shipping Name: Sodium Hydroxide, Solution

I.M.O. Hazard Class: 8
I.M.O. Subsidiary Risk: NA
I.M.O. ID Number: UN1824
I.M.O. Packing Group: II

### 15. REGULATORY INFORMATION

U.S. Federal Regulations:

O.S.H.A.: This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

E.P.A.:

S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): Immediate (Acute) Health Hazard S.A.R.A. Title III Section 313 (40 CFR 372): This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.

302 (EHS) TPQ (40 CFR 355): Not applicable
304 CERCLA RQ (40 CFR 302.4): Sodium Hydroxide 1000 lbs.
304 EHS RQ (40 CFR 355): Not applicable
Clean Water Act (40 CFR 116.4): Sodium Hydroxide - RQ = 1000 lbs. (454 kgs.)

Clean Water Act (40 CFR 116.4): Sodium Hydroxide - RQ = 1000 lbs. (454 kgs.)

RCRA: Contains RCRA regulated substances. See Section 13, EPA Waste ID Number.

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C.P.S.C.: The label for this product bears the signal word "POISON" because the concentration of Sodium Hydroxide in the product is greater than/equal to 10%.

State Regulations:

California Prop. 65: No Prop. 65 listed chemicals are present in this product.

Identification of Prop. 65 Ingredient(s): Nonc

Trade Secret Registry: Not applicable

National Inventorics:

U.S. Inventory Status: All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).

TSCA CAS Number: Not applicable

### 16. OTHER INFORMATION

Intended Use: Laboratory Reagent

References: 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. CCINFO RTECS. Canadian Centre for Occupational Health and Safety. Hamilton, Ontario Canada: 30 June 1993. Fire Protection Guide on Hazardous Materials, 10th Ed. Quincy, MA: National Fire Protection Fire Protection Guide on Hazardous Materials. 10th Ed. Quincy, MA: National Fire Protection Association, 1991. IARC Monographs on the Evaluation of the Carcinogenic Risks to Humans. World Health Organization (Volumes 1-42) Supplement 7. France: 1987. Lefevre, Marc J. First Aid Manual for Chemical Accidents, 2nd Ed. New York: Van Nostrand Reinhold Company, 1989. List of Dangerous Substances Classified in Annex I of the EEC Directive (67/548) - Classification, Packaging and Labeling of Dangerous Substances, Amended July 1992. Sixth Annual Report on Carcinogens, 1991. U.S. Department of Health and Human Services. Rockville, MD: Technical Resources, Inc. 1991. Technical Judgment. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992.

### Legend:

NA - Not Applicable

w/w - weight/weight

ND - Not Determined

w/v - weight/volume

NV - Not Available

v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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MATERIAL SAFETY DATA SHEET

1 or Page

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Super Bonder(R) 496 Instant Adhesive

49650

Item No.:
Product Type:

Cyanoacrylate Ester

### COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients

CAS No.

ક

METHYL 2-CYANOACRYLATE Poly (methyl methacrylate)
HYDROQUINONE 137-05-3 9011-14-7 123-31-9

90-95 5-10 0.1-0.5

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients

ACGIH (TLV)

OSHA (PEL) OTHER

METHYL 2-CYANOACRYLATE

2 ppm TWA 9 1 mg/M3 2 mg/m3 TWA

2 ppm TWA 8 mg/M3

None

HYDROQUINONE

2 mg/m3 TWA

2 mg/m3 TWA 4 mg/m3 STEL

Exposure Limits (STEL) Ingredients

ACGIH (TLV)

OSHA (PEL)

METHYL 2-CYANOACRYLATE

4 ppm 18 mg/M3

4 ppm 16 mg/M3

### HAZARDS IDENTIFICATION

Toxicity:

Skin contact may cause burns.
Bonds skin rapidly and strongly.
Skin and eye irritant.
Estimated oral LD50 more than 5000mg/kg.
Estimated dermal LD 50 more than 2000 mg/kg.

Primary Routes of Entry:

Signs and symptoms of Exposure:

None known

Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure t vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing Conditions
Aggravated by Exposure:

None known

Ingredients

Literature Referenced Target Organ and Other Health Effects

Carcinogen NTP IARC OSH

ALG IRR

NO NO

METHYL 2-CYANOACRYLATE Poly (methyl methacrylate) HYDROQUINONE

SKI

TRR NO AC3 BLO BNM CNS EYE IMM IRR MUT NO NO N/A NO

### Abbreviations

N/A Not Applicable RECEIVED
ALG Allergen
BNM Bone Marrow
EYE Eyes
AUG 0 c 1997

IRR Irritant SKI Skin

AUG 0 6 1997

AC3 ACGIH animal carcinogen. BLO Blood CNS Central nervous system

IMM Immune system

MUT Mutagen

## THE MOREY CORP.

MOR 001305

### FIRST AID MEASURES

Ingestion:

Inhalation: Skin Contact:

Ingestion is not likely. See supplemental page for emergency procedures.
Remove to fresh air. If symptoms persist,
obtain medical attention.

Soak in warm water. See supplemental page for

emergency procedures.

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MATERIAL SAFETY DATA SHEET

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Product Name:

Super Bonder(R) 496 Instant Adhesive 49650

Item No.:

FIRST AID MEASURES

(continu

3/0€

Eye Contact:

Flush with water. See supplemental page for

emergency procedures.

FIRE FIGHTING MEASURES

Flash Point: Recommended

150-200 F

Method: Tag Closed Cup

Extinguishing Agents: Special Firefighting

Carbon dioxide, foam, dry chemical

Procedures:

Not available

Hazardous Products formed
by Fire or Thermal Decomp Irritating organic fragments.
Unusual Fire or

Explosion Hazards:

None

Explosive Limits:
(% by volume in air)Lower
(% by volume in air)Upper Not available Not available

6 ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Flood with water to polymerize. Soak up with an

inert absorbent.

7 HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer Handling:

Store at or below 75 deg. F Service 1-800-243-4874 for shelf Life information Avoid contact with skin and eyes. Avoid breathing

vapors.

EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Safety glasses or goggles. Nitrile or polyethylene gloves and aprons. Do not use cotton.

Ventilation:

See supplemental page for additional information. Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below TLV.

Respiratory

Not available

See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

pH:

odor: Boiling Point:

Clear liquid Sharp, irritating.
More than 300 F
Does not apply
Polymerized by water.
1.09 at 75 F

92.6%; 1009.34 g/l Less than 0 2mm at 75 F Approximately 3

Not available

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THE MOREY CORP.

10 STABILITY AND REACTIVITY

Stability:

(Ether = 1)

Stable

Hazardous Polymerization: Incompatibility:

Solubility in Water:
Specific Gravity
Volatile Organic Compound
(EPA Method 24)
Vapor Pressure:
Vapor Density:
Evaporation Rate
(Fther = 1)

Will not occur

Polymerized by contact with water, alcohols, amines, alkalies.

Not available

Conditions to Avoid: Hazardous Decomposition Products (non-thermal):

None

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No :

Super Bonder(R) 496 Instant Adhesive 49650

TOXICOLOGICAL INFORMATION

See Section 3.

ECOLOGICAL INFORMATION

No data available

DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Polymerize as above. Incinerate in accordance

with EPA and local regulations.

EPA Hazardous Waste Number

NH - Not a RCRA Hazardous Waste Material

TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport Proper Shipping Name:

Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters)

Hazard Class or Division:

Unrestricted (Not more than 450 liters) Combustible liquid (More than 450 liters) None (Not more than 450 liters); NA 1993 (More than 450 liters)

Identification Number:

Marine Pollutant:

None

IATA

Unrestricted (Not more than one pint); Other regulated substances (More than one pint) Proper Shipping Name:

Class or Division:

Unrestricted (Not more than one pint);

UN or ID Number:

2

Class 9 (More than one pint) None (Not more than one pint) ID 3027 (More than one pint)

15 REGULATORY INFORMATION

CA Proposition 65:

No California Proposition 65 chemicals are known

to be present.

16 OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: Fire Hazard: Reactivity Hazard: Specific Hazard:

Estimated HMIS(R) Code: Health Hazard: Flammability Hazard: 2 Reactivity Hazards:

Does not apply

Personal Protection: NFPA is a registered

See Section 3.

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn. HMIS is a registered

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto Research Chemist, Environmental Health & Safety Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 (860) 571-5100 April 15, 1997 Revision: 0025 Environmental Health & Safety

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MATERIAL SAFETY DATA SHEET

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Product Name: Item No :

Super Bonder(R) 496 Instant Adhesive 49650

Suppleme

INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT

Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

SKIN ADHESION
First immerse the bonded surfaces in warm, soapy water. Peel or roll
the surfaces apart with the aid of a blunt edge, e.g. a spatula or a
teaspoon handle; then remove adhesive from the skin with soap and
water. Do not try to pull surfaces apart with a direct opposing
action.

EYELID TO EYELID OR EYEBALL ADHESION In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

MOUTH
If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS
Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn.
Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY
It should never be necessary to use such a drastic method to separate accidentally bonded skin

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THE MOREY CORP.



ELECTRICAL INSULATION SUPPLIERS, INC. 3715 NORTHSIDE PKWY N.W. SUITE 400, BLDG.100 ATLANTA, GA. 30327

Rec. 4/13/00 Top

#S000000094 MOREY CORP. 2659 WISCONSIN AVE. DOWNERS GROVE, IL 60515 56479 MOREY CORP.

2659 WISCONSIN AVE. DOWNERS GROVE, IL 60515

ELECTRICAL INSULATION SUPPLIERS Bldg 100, Ste 400 3715 Northside Parkway, NW Northcreek Office Park ATLANTA, GA 30327

PHONE # (404)487-3613 Shannon Schoper (404)487-3612 Dave Sharpe FAX # (404)609-6084

MATERIAL SAFETY DATA SHEET INFORMATION:

PLEASE FIND ENCLOSED MATERIAL SAFETY DATA SHEETS (MSDS) COVERING ITEMS PURCHASED FROM ELECTRICAL INSULATION SUPPLIERS (EIS). OSHA REGULATIONS REQUIRE MSDS INFORMATION BE MADE AVAILABLE TO ALL PERSONNEL WHO MAY BE EXPOSED TO HAZARDOUS MATERIALS IN THE WORK PLACE.

UNDER THE "EMERGENCY PLANNING COMMUNITY RIGHT-TO-KNOW ACT OF 1986" INVENTORY AND LOCATION INFORMATION, CONCERNING HAZARDOUS MATERIALS MFG JOB SITE, MAY NEED TO BE REPORTED TO THE LOCAL FIRE DEPARTMENT, THE LOCAL EMERGENCY PLANNING COMMITTEE AND THE STANDARD RESPONSE COMMISSION. YOU MAY WANT TO REFERENCE 40 CFR PART 372 FOR ADDITIONAL INFORMATION. MANUFACTURERS MUST REPORT ANNUAL RELEASES OF LISTED TOXIC CHEMICALS INTO THE ENVIRONMENT, ACCORDING TO SARA TITLE III.

ACCORDING TO 29 CFR PART 1910.1200 PARAGRAPH (g)(6) OF THE HAZARD COMMUNICATION STANDARD, A MSDS IS TO BE PROVIDED THE FIRST TIME THE CUSTOMER BUYS AN ITEM REQUIRING A MSDS. IF AT ANY TIME THE MSDS IS UPDATED OR CHANGED, THE UPDATED MSDS MUST BE SUPPLIED WITH THE FIRST SHIPMENT AFTER THE MSDS UPDATE HAS OCCURRED.

IF YOU NEED FURTHER INFORMATION CONCERNING YOUR SITUATION, YOU MAY CONTACT THE EPA IN WASHINGTON, D.C. THEIR TOLL FREE NO. IS (800)535-0202; THE RCRA/SUPERFUND HOT LINE IS (800)424-9346 OR (703)920-9810; THE TSCA HOT LINE IS (202)554-1404.

BY PROVIDING THIS DOCUMENTATION, EIS IS COMPLYING WITH FEDERAL LAWS GOVERNING MSDS INFORMATION, AS IS KNOWN TO US. THIS IS A SERVICE AIMED AT HELPING YOUR BUSINESS TO ALSO COMPLY WITH GOVERNMENT REGULATIONS.

DAVE SHARPE

"SEE THE REVERSE SIDE FOR DOCUMENT NAME AND P.O. NUMBER"

56479/MOREY CORP.

SHIP

**BLR240** 

MSDS DOCUMENT CHOT1674

DATE CUSTOMER PURCHASE ORDER NUMBER 04/05/00 105181

/CH0T1674

CHOMERICS INC 77 Dragon Court Woburn, MA 01888 EMERGENCY/SAFETY INFORMATION: (617) 935-4850 OR: (617) 938-8630

ADDITIONAL MSDS: (617) 828-3300

SECTION I - IDENTIFICATION

PRODUCT (TRADE) NAME: Cho-Therm 1674

General Chemical Description: Solvent-based silicone

SECTION II - INGREDIENTS

| -              |             | Exposure Guidelines |           |  |  |
|----------------|-------------|---------------------|-----------|--|--|
| Components     | % by Weight | OSHA PEL            | ACGIH TLV |  |  |
| Aluminum Oxide | 60 - 80%    | 10 mg/m3            | 10 mg/m3  |  |  |
| Silicone Resin | 15-305      | NE                  | NE        |  |  |
| Toluene        | 10-20%      | 100 ppm             | 50 рр∎    |  |  |
| Isopropanol    | 2 · 5%      | 50 ppm              | 50 pp∎    |  |  |

SECTION III - PHYSICAL DATA

Boiling Point (Degree F): )200 Vapor Pressure (mm Hg @25 C): (4 Percent volatiles by weight: (20 Specific Gravity (water =1): ) 1.75 Solubility in Water : Insoluble

Vapor Density : Heavier than air

Appearance and Odor : Gray liquid; solvent odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Degree F): 40-50, based on toluene

Flammable limits:

Lel: 1.3% UEL: 7.1% for Toluene

Extinguishing Media:

Use carbon dioxide, dry chemical, foam.

Unusual Fire or Explosion Hazard:

Decomposition and combustion products may be toxic. Closed containers may violently rupture under fire conditions. Vapors may form flammable mixtures with air. Vapors from this product are heavier than air, and may travel a considerable distance to a source of ignition and flash back.

Special Firefighting Procedures:

Firefighters/rescue personnel should wear positive pressure self contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities of material are involved, evacuate area and fight fire from a safe distance.

SECTION V - REACTIVITY DATA

Product Stability:

Product is stable under normal handling and storage conditions. Hazardous polymerization will not occur; however, review reactivity data concerning conditions to avoid and incompatible substances.

Incompatibility:

Incompatible with strong oxidizers, acids, bases.

Hazardous Decompositions Products;

Carbon monoxide, carbon dioxide, aldehydes, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on th conditions of combustion.

#### Conditions to avoid:

Avoid storage in open containers, exposure to open flame or uncontrolled exposure to heat, uncontrolled mixing with curing agents or exposure to incompatible substances.

#### SECTION VI - RELEASE RESPONSE DATA

Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSOS before proceeding with spill response.

### Small Spills:

Activate all explosion-proof exhuast ventilation in the immediate spill area. Extinguish open flames and eliminate all other sources of ignition. Wipe up, or absorb with vermiculite or other similar material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate chemical waste containers. Dispose of as an ignitable waste in accordance with all current Federal, State, and local regulations.

#### Large Spills:

Evacuate all personnel not directly involved with control/cleanup operations from the immediate spill area. Extinguish open flames and all other sources of ignition. Activate explosion-proof exhaust ventilation in the immediate spill area. Shut off the source of the release if this can be done without risk of injury. Use only spill response equipment approved for use in potential flammable/explosive environments. Dike area to contain the spill and prevent releases to sewers or other waterways. Collect spilled material for salvage/disposal. Apply absorbent material to soak up residue. Wash area with soapy water. Prevent runoff from entering sewers or other waterways. Collect abosrbed material and water rinses in appropriate waste containers. Dispose of as an ignitable waste in accordance with Federal, State, and local regulations.

#### SECTION VII - HANDLING PRECAUTIONS

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because usage conditions will vary depending on customer application, specific safe handling procedures should be developed by a person knowledgeable in the intended usage conditions and equipment. Employees must be properly trained in safe handling of this product prior to use.

### Personal Protection:

This product can cause severe eye irritation. Prevent eye contact through the use of splash-proof chemical goggles or face shield. This product can cause skin irritation. Components of this product may be absorbed through the skin. Wear appropriate protective gloves to minimize skin contact. If necessary a promper chemical-resistant apron and additional impervious clothing should be used to minimize skin contact and prevent contamination of clothing. Normal work clothing should be washed before re-use. Wash hands and face thoroughly after handling this product and before eating, drinking or smoking. Emergency eye wash facilities and safety shower must be available.

### Ventilation Recommendations and Respiratory Protection:

Provide effective explosion-proof mechanical exhaust ventilation to draw vapors, mists, or fumes generated during processing away from the worker and prevent routine inhalation. Ventilation must be sufficient to maintain airborne concentrations of Section 2 ingredients below their PEL/TLV values. The type of respiratory protection selected will depend upon the conditions of use. Observe OSHA regulations for respiratory protection (29 CFR 1910.134).

#### Storage:

Store in a cool, dry location with adequate ventilation. Keep container tightly sealed when not in use. Do not store near heat, sparks or open flame. To prevent fire or explosion risk from static electricity accumulation and discharge, effectively ground storage and transfer containers in accordance with NFPA standards. Empty containers may contain flammable liquid or vapor residue. Do not cut, weld, solder, drill, grind or expose container to heat, flame or other source of ignition. They may explode and

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cause injury or death.

#### SECTION VIII - HEALTH DATA

Routes of Exposure:

Skin and eye contact, inhalation of vapors.

Medical Conditions Aggravated by Exposure:

Exposure may aggravate preexisting skin, eye and/or respriatory disorders.

#### Eve Contact:

Contains materials which cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. Toluene may be absorbed through the skin.

### Inhalation:

High vapor concentrations may cause respiratory irritation, headaches, nausea, dizziness; may cause anesthetic efforts or other temporary central nervous system effects. Severity of effects will be dependent upon vapor concentration and severity of exposure.

#### Indestion:

Har∎ful if swallowed.

#### Chronic Health Effects:

Overexposure to toluene has produced severe but reversible liver and kidney injury in humans. Repeated and prolonged overexposure has been associated with central nervous system injury and cardiac sensitization.

#### SECTION IX- FIRST AID PROCEDURES:

#### Eye Contact:

Immediately flush eyes thoroughly with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

#### Skin Contact:

Remove any contaminated clothing and flush the affected area of the skin thoroughly with plenty of water. Follow by washing with soap and water. Get medical attention if irritation persists. Do not reuse contaminated clothing until properly cleaned.

#### Inhalation:

Remove victim to fresh air. Provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get immediate medical attention.

### Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, dilute by giving water to drink; never give anything by mouth to a drowsy, unconscious, or convulsing person. Get immediate medical attention.

#### SECTION X ADDITIONAL INFORMATION

#### TSCA STATUS:

All components of this product are listed in the EPA toxic Substance Control Act Inventory.

### SARA STATUS:

The components listed in Section 2 which are substances regulated by the SARA Section 313 amendments to RCRA are as follows: Toluene (108-88-3)

### Special Notes:

Date prepared: 5/12/93 Document number: 1674

#### Abbreviations:

NA= Not Applicable NE = Not Established ND= Not Determined ppm= Parts per Million mg/m3= Milligrams Per Cubic Meter C= Ceiling Concentration STEL= Short Term Exposure Limit

### PREPARED BY DISTRIBUTOR:



Refer to ANSI Z49.1

A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131

# Par. 3/8/01 Sar MATERIAL SAFETY DATA SHEET

1986 and of 40CFR72).

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of

ISSUE DATE

November 25, 1985

REVISED

October 1, 1997

For Information or In An Emergency Call: (847) 455-7111

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| Section S. Reactivity Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Stability<br>Stable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                         | ility (Materials to Avoid)<br>Reacts with s | strong acids to produce hydrogen gas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Conditions to Avoid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| NA Hazardous Decomposition Products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Metallic dust or fumes may be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Product   |   |
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| Stainless | • |
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| Section 6 - Health Hazar                         | d Deta                                                                                             | · 中国中国                                                       | entrance of the second                                  | THE RESERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE TO SERVE  |
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| NOTE: STEEL PRODUCTS IN<br>BURNING, WELDING,     | THE NATURAL STATE DO NOT PRESE<br>SAWING, BRAZING AND GRINDING MA                                  | NT AN INHALATION, INGESTION C<br>Y RELEASE FUMES AND/OR DUST | IR CONTACT HAZARD. HOWEVE<br>IS WHICH MAY PRESENT HEALT | R, OPERATIONS SUCH AS<br>H HAZARDS IF TLV'S ARE EXCEEDED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MAJOR EXPOSURE HAZARD                            |                                                                                                    |                                                              |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ⊠Inhalation                                      | Skin Contact                                                                                       | Skin Absorption                                              | Eye Contact                                             | Ingestion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Effects of Overexposure                          |                                                                                                    |                                                              |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| freshly formed                                   | osure to fumes/dust may prod<br>oxide fumes of iron, mangane<br>s and irritation of the throat and | se and copper may cause                                      | espiratory system. Inhala<br>metal fume fever characte  | tion of high concentrations of erized by a metallic taste in the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Chronic inhala<br>of high concen<br>carcinogens. | tion of high concentrations of in<br>trations of ferric oxide may pos                              | ron oxide fumes or dust massibly enhance the risk of lu      | y lead to a benign pneum<br>ung cancer development i    | noconiosis (siderosis). Inhalation in workers exposed to pulmonary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Toxicology Pro                                   | nickel and their compounds a<br>gram (NTP). Exposure to high<br>on of upper respiratory tract an   | h concentrations of dust an                                  | d fumes can cause sensit                                | is prepared by the National tization dermatitis, inflammation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Recent epidem cancer.                            | iiological studies of workers ma                                                                   | elting and working alloys co                                 | ontaining nickel/chromium                               | n have found no increased risk of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| · ·                                              | NO: This product's ingredients are n                                                               |                                                              |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Emergency and First Aid Procedure                | es .                                                                                               |                                                              |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| If exposed to e                                  | xcessive levels of metal fumes                                                                     | s, remove to fresh air, seek                                 | medical aid immediately.                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Eyes - Flush wi                                  | ith water for at least 15 minute                                                                   | S.                                                           |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Section 7 - Spill or Leak i                      | Procedures                                                                                         |                                                              | 4月5月1日                                                  | in a said and a said and a said a said a said a said a said a said a said a said a said a said a said a said a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Spill or Leak Procedures<br>NA                   |                                                                                                    |                                                              |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Waste Disposal Methods                           | <del></del>                                                                                        | <del> </del>                                                 |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| •                                                | cal, state and federal regulatio                                                                   | ins                                                          |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Section 8 - Special Prote                        | ction                                                                                              | na en en en en en en en en en en en en en                    | i i i i i i i i i i i i i i i i i i i                   | # 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Respiratory<br>NIOSH/MSHA<br>exposure exce       | - Approved dust and fume, res<br>eds TLV's.                                                        | pirator should be used to a                                  | void excessive inhalation                               | of particulates when                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Veritilation  Local exhaust v  exposure exce     | ventilation should be utilized wieds TLV's.                                                        | hen welding, burning, sawi                                   | ng, brazing, grinding or m                              | achining when                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                  | or goggles should be utilized a<br>the welding standards.                                          | as required by exposure. C                                   | Other protective equipmen                               | t should be utilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Section 9 - Special Preca                        | utions was the same of the same of the                                                             | ng (1944) ja ayand og a som is a saka ja <del>jaj</del> on   | wing a suffer of the second                             | Andrew Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the |
| In welding, pred                                 | cautions should be taken for ai                                                                    | rborne contaminants which                                    | n may originate from comp                               | conents of the welding rod.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Arc or spark ge                                  | nerated when welding or burni                                                                      | ing could be a source of igr                                 | nition for combustible and                              | flammable materials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                  |                                                                                                    |                                                              | М                                                       | OR 001317                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness.

The conditions or methods of handling storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100

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Page 1 of

MATERIAL SAFETY DATA SHEET

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Super Bonder(R) 496 Instant Adhesive 49650

Item No.:
Product Type:

Cyanoacrylate Ester

### COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients

CAS No.

METHYL 2-CYANOACRYLATE Poly (methyl methacrylate) HYDROOUINONE

137-05-3 9011-14-7 123-31-9

90-95 5-10

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients

ACGIH (TLV)

OSHA (PEL) OTHER

METHYL 2-CYANOACRYLATE

2 ppm TWA 8 mg/M3

None

HYDROQUINONE

2 ppm TWA 9.1 mg/M3 2 mg/m3 TWA

2 mg/m3 TWA

2 mg/m3 TWA 4 mg/m3 STEL

Exposure Limits (STEL) Ingredients

ACGIH (TLV)

OSHA (PEL)

METHYL 2-CYANOACRYLATE

4 ppm 18 mg/M3

4 ppm 16 mg/M3

### HAZARDS IDENTIFICATION

Toxicity:

Skin contact may cause burns.
Bonds skin rapidly and strongly.
Skin and eye irritant.
Estimated oral LD50 more than 5000mg/kg.
Estimated dermal LD 50 more than 2000 mg/kg.

Primary Routes of Entry: Signs and symptoms

of Exposure:

None known

Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to

vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing Conditions

Aggravated by Exposure:

None known

Literature Referenced Target Organ and Other Health Effects Ingredients

Carcinogen NTP IARC OSHA

ALG IRR

NO N/A NO NO

METHYL 2-CYANOACRYLATE Poly (methyl methacrylate) HYDROQUINONE

IRR

SKI

AC3 BLO BNM CNS EYE IMM IRR MUT NO

### Abbreviations

N/A Not Applicable RECEIVED
BNM Bone Marrow

AC3 ACGIH animal carcinogen.

BLO Blood CNS Central nervous system IMM Immune system

**EYE** Eyes AUG 0 6 1997 IRR Irritant MUT Mutagen SKI Skin

THE MOREY CORP.

MOR 001318

### FIRST AID MEASURES

Ingestion:

Ingestion is not likely. See supplemental page for

Inhalation:

Skin Contact:

emergency procedures.
Remove to fresh air. If symptoms persist, obtain medical attention.

Soak in warm water. See supplemental page for emergency procedures.

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MATERIAL SAFETY DATA SHEET

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FAX: (860) 571-5465

Product Name: Item No.:

Super Bonder(R) 496 Instant Adhesive

49650

4 FIRST AID MEASURES

(continued)

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Eye Contact:

Flush with water. See supplemental page for

emergency procedures.

FIRE FIGHTING MEASURES

Flash Point: Recommended

150-200 F

Method: Tag Closed Cup

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Extinguishing Agents:

Carbon dioxide, foam, dry chemical

Special Firefighting Procedures:

Not available

Hazardous Products formed

by Fire or Thermal Decomp Irritating organic fragments.
Unusual Fire or
Explosion Hazards: None

Explosive Limits: (% by volume in air)Lower (% by volume in air)Upper Not available Not available

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Flood with water to polymerize. Soak up with an

inert absorbent.

7 HANDLING AND STORAGE

Safe Storage: (Contact Loctite Customer Handling:

Store at or below 75 deg. F Service 1-800-243-4874 for shelf Life information) Avoid contact with skin and eyes. Avoid breathing

vapors.

EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

pH:

Safety glasses or goggles. Nitrile or polyethylene gloves and aprons. Do not use cotton.

See supplemental page for additional information. Positive down-draft exhaust ventilation should be

provided to maintain vapor concentration below TLV.

Respiratory

Ventilation:

Not available

See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor: Boiling Point:

Clear liquid Sharp, irritating. More than 300 F

Does not apply

Polymerized by water. 1.09 at 75 F

92.6%; 1009.34 g/l Less than 0.2mm at 75 F Approximately 3

Not available

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10 STABILITY AND REACTIVITY

Stability:

Hazardous Polymerization: Incompatibility:

Solubility in Water: Specific Gravity Volatile Organic Compound

(EPA Method 24) Vapor Pressure: Vapor Density:

Evaporation Rate

(Ether = 1)

Conditions to Avoid:

Hazardous Decomposition Products (non-thermal):

Stable

Will not occur

Polymerized by contact with water, alcohols, amines, alkalies.

Not available

None

MOR 001319

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910

EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

3 of Page

ISSUED

FAX: (860)

8/06/97 10:17:02

571-5465

Product Name: Item No.:

Super Bonder(R) 496 Instant Adhesive 49650

TOXICOLOGICAL INFORMATION

See Section 3.

ECOLOGICAL INFORMATION

No data available

13 DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Polymerize as above. Incinerate in accordance

with EPA and local regulations.

EPA Hazardous Waste Number

NH - Not a RCRA Hazardous Waste Material

TRANSPORTATION INFORMATION 14

DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name:

Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters)

Hazard Class or

Division:

Unrestricted (Not more than 450 liters)

Identification Number:

Combustible liquid (More than 450 liters) None (Not more than 450 liters); NA 1993 (More than 450 liters) None

Marine Pollutant:

IATA

Proper Shipping Name:

Unrestricted (Not more than one pint); Other regulated substances (More than one pint)

Unrestricted (Not more than one pint); Class or Division:

Class 9 (More than one pint)

None (Not more than one pint) ID 8027 (More than one pint) UN or ID Number:

2 2

2 2

REGULATORY INFORMATION

No California Proposition 65 chemicals are known CA Proposition 65:

to be present.

OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: Fire Hazard: Reactivity Hazard: Specific Hazard:

Does not apply

Estimated HMIS(R) Code:
 Health Hazard:
 Flammability Hazard:

Reactivity Hazards: Personal Protection:

See Section 8.

NFPA is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn. HMIS is a registered

Prepared By: Title:

Company: (24hr.) Phone: Revision Date:

Stephen Repetto
Research Chemist, Environmental Health & Salet,
Tootite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067 Loctite Corp. (860) 571-5100 April 15, 1997

Revision: 0025

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1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERCENCY PHONE: (860) 571-516

EMERGENCY PHONE: (860) 571-5100 FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Page 4 of 4

ISSUED

Product Name: Item No.:

Super Bonder(R) 496 Instant Adhesive 49650

Supplement

8/06/97 10:17:02

INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT

Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

SKIN ADHESION
First immerse the bonded surfaces in warm, soapy water. Peel or roll
the surfaces apart with the aid of a blunt edge, e.g. a spatula or a
teaspoon handle; then remove adhesive from the skin with soap and
water. Do not try to pull surfaces apart with a direct opposing
action.

EYELID TO EYELID OR EYEBALL ADHESION
In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

MOUTH
If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS
Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn.
Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY
It should never be necessary to use such a drastic method to separate accidentally bonded skin

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MOR 001321

Rec. 6/15/01

### MATERIAL SAFETY DATA SHEET

PAGE:

1 OF 6

DATE OF LAST CHANGE: 05/01/01

DATE PRINTED..... 05/01/01

MANUFACTURER'S NAME:

NAZDAR SHAWNEE

8501 HEDGE LANE TERRACE

SHAWNEE KS 66227

USA

EMERGENCY TELEPHONE #:
(U.S. and Canada)
EMERGENCY TELEPHONE #:

(800)424-9300

EMERGENCY TELEPHONE #: (703)527-3887 (Outside U.S. and Canada, collect calls are accepted) INFORMATION TELEPHONE #: (800)677-4657

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CODE: 89NL

TRADE NAME...: SUPERSET THERMOSET SERIES SCREEN INK

PRODUCT CLASS: SCREEN INK

INK SERIES...: 8900

- HMIS CODES -HEALTH HEALTH - 1\* FLAMMABILITY - 2 REACTIVITY PPE - 0

|                                | WT     | VOC | VOC    | # VOC  |                              | WT     | VOC | VOC    | # VOC  |
|--------------------------------|--------|-----|--------|--------|------------------------------|--------|-----|--------|--------|
| Item Description               | lb/gal | g/L | 1b/ga1 | volume | Item Description             | lb/gal | g/L | 1b/gal | volume |
| 8915 PERMANENT PRIMROSE YELLOW | 10.5   | 147 | 1.2    | 16     | 8921 PEACOCK BLUE            | 1Ŏ.O   | 188 | 1.6    | 20     |
| 8922 ULTRA BLUE                | 9.7    | 190 | 1.6    | 20     | 8924 BLACK                   | 9.9    | 171 | 1.4    | 18     |
| 8925 WHITE                     | 11.9   | 182 | 1.5    | 19     | 8926 MIXING CLEAR            | 9.3    | 122 | 1.0    | 13     |
| 8948 FLATTING PASTE            | 10.3   | 178 | 1.5    | 18     | 8975 SUPER OPAQUE WHITE      | 13.0   | 151 | 1.3    | 16     |
| 8989 RED TONER                 | 9.5    | 188 | 1.6    | 20     | 89400 HALFTONE EXT BASE      | 9.5    | 274 | 2.3    | 28     |
| 89401 HALFTONE CYAN DENSE      | 9.5    | 269 | 2.2    | 27     | 89402 HALFTONE MAGENTA DENSE | 9.5    | 268 | 2.2    | 27     |
| 89403 HALFTONE YELLOW DENSE    | 9.6    | 269 | 2.2    | 27     | 89404 HALFTONE BLACK DENSE   | 9.7    | 275 | 2.3    | 28     |
| 89410 YELLOW                   | 9.8    | 189 | 1.6    | 20     | 89411 WARM RED               | 9.4    | 175 | 1.5    | 18     |
| 89417 RUBINE RED               | 9.5    | 188 | 1.6    | 20     | 89418 RHODAMINE RED          | 9,8    | 213 | 1.8    | 22     |
| 89422 REFLEX BLUE              | 9.6    | 155 | 1.3    | 17     | 89433 PURPLE                 | 9.9    | 203 | 1.7    | 21     |
| 89440 PROCESS BLUE             | 10.2   | 182 | 1.5    | 19     | 89441 GREEN                  | 10.0   | 154 | 1.3    | 17     |
| 89PB10 TRANS PRIMROSE YELLOW   | 9.4    | 187 | 1.6    | 19     | 89PB12 TRANS MEDIUM YELLOW   | 9.3    | 187 | 1.6    | 20     |
| 89PB13 TRANS GREEN             | 9.6    | 177 | 1.5    | 19     | 89PB18 TRANS RED             | 9.4    | 175 | 1.5    | 18     |
| 89PB20 TRANS ORANGE            | 9.3    | 187 | 1.6    | 19     | 89PB22 TRANS BLUE            | 9.4    | 178 | 1.5    | 19     |
| 89PB60 STOP SIGN RED           | 9.3    | 206 | 1.7    | 21     |                              | .0     | 0   | .0     | 0      |

| SECTION | 2   | COMPOSITION. | THEODMATTON | ſΝ | THEREDIENTS |
|---------|-----|--------------|-------------|----|-------------|
| SECTION | ~ . | COMPOSITION. | THURWITON   | w  | TURNEDIENIS |

| CHENICAL NAME;<br>COMMON NAME:                                                     |        |                             |                        |                      |       |
|------------------------------------------------------------------------------------|--------|-----------------------------|------------------------|----------------------|-------|
| CAS NUMBER                                                                         | MEIGHT | TLV                         | PEL                    | PRESSURE<br>IN millg | NOTES |
| RESIN MIXTURES;<br>CAS ∯: NOT AVAILABLE                                            | 46-87  | NOT<br>ESTABLISHED          | NOT<br>ESTABLISHED     | <1 0 20C             |       |
| PETROLEUM DISTILLATE:<br>ARONATIC HYDROCARBON:<br>CAS #: 64742-94-5                | 4-8    | NOT<br>ESTABLISHED          | NOT<br>ESTABLISHED     | <1 @ 20C             | (1)   |
| * DIETHYLENE GLYCOL BUTYL ETHER;<br>2-(2-BUTOXYETHOXY)-ETHANOL;<br>CAS #: 112-34-5 | < 7    | NOT<br>ESTABLISHED          | NOT<br>ESTABLISHED     | 0.06 @ 25C           | (2)   |
| TITANIUM DIOXIDE;<br>CAS #: 13463-67-7                                             | 0-41   | 10 mg/m3                    | 10 mg/m3               | N/A                  |       |
| SILICA, AMORPHOUS;<br>CAS #: 112926-00-8                                           | 0-21   | 10 mg/m3                    | 6 mg/m3                | N/A                  |       |
| PIGMENTS:<br>MIXTURE:<br>CAS #: NOT AVAILABLE                                      | 0-14   | 10 mg/m3<br>Total dust      | 15 mg/m3<br>Total dust | N/A                  | ( 3)  |
| ALIPHATIC DIBASIC ACID ESTERS;<br>DIBASIC ESTER HIXTURE;<br>CAS #: HOT ESTABLISHED | 0-11   | NOT<br>ESTABLISHED          | NOT<br>ESTABLISHED     | 0.2 @ 20C            | (4)   |
| SILICON DIOXIDE;<br>AMORPHOUS FUMED SILICA;<br>CAS #: 112945-52-5                  | 0.7    | NOT<br>EST <b>ablishe</b> d | 20 mppcf               | N/A                  |       |
| BARIUM SULFATE;<br>CAS #: 7727-43-7                                                | 0-6    | 10 mg/m3                    | 10 mg/m3<br>Total Dust | N/A                  |       |

Skin

20 ppm

25 ppm

Skin

0.6 @ 20C

(5)

Ì

ETHYLENE GLYCOL MONOBUTYL ETHER;
CAS #: 111-76-2

\* SUBJECT TO REPORTING REQUIREMENT OF SECTION 313 OF TITLE III OF SARA (40 CFR PART 372).

Industry recommended exposure limit of 100 ppm.
 Supplier recommended exposure limit of 35 ppm.

This chemical is included on the list of Hazardous Air Pollutants (HAPs) from Title III of the Clean Air Act Amendments of 1990 (Glycol Ethers Category).

See Section 8 Exposure Controls, Personal Protection - Exposure Guidelines for more information on exposure limits.

0-4

4) Supplier recommended exposure limit of 10 mg/m3.

5) This chemical is included on the list of Hazardous Air Pollutants (HAPs) from Title III of the Clean Air Act Amendments of 1990 (Glycol Ethers Category).

The recommended permissible exposure limits (PEL) indicated above reflect the levels adopted by OSHA in 1989. Although, some of the 1989 levels have since been vacated, the Nazdar Company recommends that the lower exposure levels be observed as reasonable worker protection.

SECTION 3 -- HAZARDS IDENTIFICATION

#### GENERAL HEALTH EFFECTS

\* 2-BUTOXYETHANOL;

THE FOLLOWING INFORMATION HAS BEEN DEVELOPED BASED UPON USING THE PRODUCT AS INTENDED BY THE MANUFACTURER. The potential health effects of this product are based on the hazards of its components. The use of this product in combination with other products may produce synergistic (additive) health effects. Cautionary labeling and material safety data sheets of all materials used with this product should be reviewed before use.

#### **EYES**

Eye contact with liquid, vapors or mists may cause irritation, including burning, tearing, redness or swelling.

### SKIN

Repeated or prolonged overexposure may cause skin irritation or dermatitis. Symptoms may include dryness, chapping and redness. Skin absorption is possible but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

#### INHALATION

Repeated and prolonged overexposure by inhalation may cause respiratory tract irritation. Symptoms may include central nervous system disorders such as headaches, dizziness, weakness and fatigue.

#### INGESTION

Ingestion may cause gastrointestinal tract irritation. Symptoms may include nervous system depression including drowsiness or unconsciousness. Ingestion may cause vomiting. Aspiration of material into lungs may cause chemical pneumonitis which can be fatal.

### CHRONIC EFFECTS/TARGET ORGANS

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

### ANIMAL STUDIES

Diethylene glycol butyl ether caused liver and blood abnormalities and kidney damage in lab animals after overexposure. Aliphatic dibasic acid esters (or its components) have been suggested as a cause of the following effects in lab animals, after overexposure, and may aggravate pre-existing disorders of these organs in humans; mild, reversible liver effects, nasal damage. 2-Butoxyethanol has caused reproductive and blood disorders resulting in kidney, liver and lung damage in lab animals. For animal studies, reference TSCA Section 4 Test Rule Results or contact the manufacturer for further details.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Pregnant women and persons with pre-existing health disorders should consult their physician before using this product. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health effects. See Section 3 "Hazards Identification" for effects of certain hazardous ingredients.

### ROUTES OF EXPOSURE

Primary exposure routes: Inhalation-Dermal (Contact/Absorption)-Ingestion

SECTION 4 -- FIRST AID HEASURES

#### **EYES**

After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists have eyes examined and tested by medical personnel.

SKIN

In case of contact, immediately wash skin with a mild soap and plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Cool water is initially suggested to prevent the pores of the skin from opening. This will minimize both the area and time of skin contact. Lukewarm water may then be used to ensure all contaminants are removed. Skin should be monitored for reddening or chemical burns. Mild soap is suggested to help prevent abrading the skin or rubbing the chemicals into pores during cleansing. Get medical attention if irritation persists or significant contact has occurred. Thoroughly wash (or discard) clothing and shoes before reuse.

TNHALATION

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention if breathing difficulty is experienced.

INGESTION

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

OTHER COMMENTS

No Data Available

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT

145 Degrees - 150 Degrees Fahrenheit (TCC)

OSHA FLAMMABILITY CLASSIFICATION (NFPA)
Class IIIA Combustible Liquid

FLAMMABLE LIMITS (LEL-LOWER EXPLOSIVE LIMIT)
0.5% volume in air

EXTINGUISHING MEDIA

Foam-CO2-Dry Chemical-Water Spray

FIRE AND EXPLOSION HAZARDS

Isolate from heat, electrical equipment, sparks, and open flame. Keep containers tightly closed. Vapors may be heavier than air and can travel to a source of ignition then flash back. Closed containers may explode when exposed to extreme heat.

FIRE FIGHTING EQUIPMENT

Full protective equipment including self-contained breathing apparatus (SCBA) is recommended to protect firefighters.

SPECIAL FIRE FIGHTING PROCEDURES

Water may be ineffective but may be used to cool containers. Fumes released on burning may be toxic and dangerous.

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RELEASE HANAGEMENT MEASURES

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid contact or breathing vapors. Ventilate area. Contain release and remove with inert absorbent. Use non-sparking tools to place material in appropriate container for disposal. The National Response Center (800-424-8802) and local authorities should be contacted for any reportable spill/release.

SECTION 7 -- HANDLING AND STORAGE

HANDLING AND STORAGE METHODS

Use in a well ventilated area. Follow all MSDS/label precautions even after container is emptied; container may retain product residues. Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use. Smoke in designated areas only. Avoid prolonged or repeated overexposure to this product. Keep out of reach of children. Follow label directions carefully. Do not take internally. Harmful or fatal if swallowed.

SECTION 8 -- EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION

If concentrations of hazardous ingredients exceed exposure limits listed in Section 2 an appropriate NIOSH (National Institute for Occupational Safety and Health) approved respirator with an organic vapor cartridge should be used. If material is handled under mist, spray or dust forming conditions, a PlOO (99.97% efficiency) filter should be used in addition to the organic vapor cartridge. If no exposure limits are listed in Section 2, follow general safety guidelines in 29 CFR 1910.134 Respiratory Protection or other applicable respiratory standard.

SKIN PROTECTION

Use neoprene, nitrile or other gloves resistant to chemicals listed in Section 2. Contact a reputable safety supply company

for appropriate gloves. Solvent resistant aprons are recommended. Prevent prolonged skin contact with contaminated clothing.

#### EYE PROTECTION

Use ANSI (American National Standards Institute) approved safety glasses, faceshield or splash proof goggles to prevent eye contact. Contact a reputable safety supply company for appropriate eye protection. The availability of an eye wash is highly

#### EXPOSURE GUIDELINES

See Section 2 "Composition, Information on Ingredients" for occupational exposure limits. Excessive concentrations of nuisance dusts or particulates not otherwise classified (PNOC) or regulated (PNOR) may reduce visibility and cause unpleasant deposits in the eyes, ears, and masal passages. The TLV and PEL has been established for all non-toxic "nuisance dusts" that are not otherwise classified and refers to both organic and inorganic dusts. Exposure or generation of these dusts is not anticipated during normal printing operations. The use of dry pigments and powders, grinding or sanding of printed products may generate quantities of these particulates. Refer to Section 2 Composition, Information on Ingredients for exposure limits.

### HYGIENIC PRACTICES

Wash with soap and water before eating, smoking or using toilet facilities. Separately wash or discard clothing and footwear before reuse. NEVER try to remove ink from the skin by using solvent or thinner. Such action is likely to increase the possibility of undesirable effects. Remove contaminated clothing to prevent prolonged skin contact.

Use applicable engineering controls, work practices and personal protective equipment to ensure all concentrations are kept below the exposure limits listed in Section 2. Adequate controls should be implemented to ensure employee safety from fine mists which may be produced under some printing conditions.

### OTHER PROTECTION

No Data Available

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE:

Viscous liquid

#### MMR.

Characteristic

### PHYSICAL STATE:

Liquid

Not applicable

### VAPOR PRESSURE

See Section 2 for individual ingredients.

### VAPOR DENSITY

Heavier than air

### BOILING POINT

Greater than 300 degrees Fahrenheit

### FREEZING POINT

Not available

### SOLUBILITY IN WATER

Not tested

## EVAPORATION RATE

Slower than ether

### VISCOSITY

Greater than water

### PERCENT VOLATILE BY VOLUME: SEE SECTION ONE

WEIGHT PER GALLON: SEE SECTION ONE

VOC: SEE SECTION ONE

### PHOTOCHEMICALLY REACTIVE

No

| PRODUCT                 | CODE: 89NL                                           | NAZDAR SHAWNEE                                                                                                                                                                                                                                                                                                                                                                 | PAGE:                     | 5 OF                      |
|-------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Perc                    | ent volatile = F                                     | Percent VOC                                                                                                                                                                                                                                                                                                                                                                    |                           |                           |
|                         | • • • • • • • • • • • • • • • • • • • •              | SECTION 10 STABILITY AND REACTIVITY                                                                                                                                                                                                                                                                                                                                            |                           |                           |
|                         |                                                      | 201104 10 -> 210101111 WE KINCHAIT                                                                                                                                                                                                                                                                                                                                             | •••••                     | • • • • • • • •           |
| CHEMICAL<br>Stab        | STABILITY<br>le                                      |                                                                                                                                                                                                                                                                                                                                                                                |                           |                           |
| CONDITIO<br>Avo1        | NS TO AVOID<br>d excessive heat                      | t, ignition sources, sparks and open flame.                                                                                                                                                                                                                                                                                                                                    |                           |                           |
|                         | IBILITY WITH OTH<br>ng acids/bases,                  | HER MATERIALS oxidizing/reducing agents and reactive chemicals.                                                                                                                                                                                                                                                                                                                |                           |                           |
| HAZARDOU<br>May j       | S DECOMPOSITION<br>produce hazardou                  | PRODUCTS us fumes when heated to decomposition e.g. carbon monoxide, carbon dioxide and other noxide                                                                                                                                                                                                                                                                           | ous gases.                |                           |
|                         | S POLYMERIZATION                                     | no normal printing and storage conditions.                                                                                                                                                                                                                                                                                                                                     |                           |                           |
|                         | •••••                                                | SECTION 11 TOXICOLOGICAL INFORMATION                                                                                                                                                                                                                                                                                                                                           |                           |                           |
|                         | • • • • • • • • • • • • • • • • • • • •              |                                                                                                                                                                                                                                                                                                                                                                                |                           | . <b></b> .               |
| Refer<br>dist           | 111ate CAS# 6474<br>Rat: 3800 mg/m3                  | lazards Identification for additional toxicological data. Experimental toxicity data on p<br>12-94-5 has given the following results: Oral LD50 Rat; 10 ml/kg; Dermal LD50 Rabbit 4 ml/l<br>13 4 hours. Experimental toxicity data on 2-butoxyethanol has given the following results:<br>15 intraperitoneal LD50 Rat: 550 mg/kg.                                              | kg: Inhalat<br>Oral LD50  |                           |
| ••••••                  | • • • • • • • • • • • • • • • • • • • •              | SECTION 12 ECOLOGICAL INFORMATION                                                                                                                                                                                                                                                                                                                                              |                           |                           |
|                         | • • • • • • • • • • • • • • • • • • • •              |                                                                                                                                                                                                                                                                                                                                                                                |                           |                           |
| not b<br>ENVIRONME      | use this product<br>be disposed of i                 | may be a mixture of chemicals, some of which may be ecologically toxic, it is strongly sonto the environment, i.e. soil, water courses, lakes, landfills, sewers, etc.                                                                                                                                                                                                         | uggested th               | nat it                    |
| No Da                   | ata Available                                        | ***************************************                                                                                                                                                                                                                                                                                                                                        |                           |                           |
| -,                      |                                                      | SECTION 13 DISPOSAL CONSIDERATIONS                                                                                                                                                                                                                                                                                                                                             | , <b></b> .               |                           |
| DISPOSAL                | METIMOR                                              |                                                                                                                                                                                                                                                                                                                                                                                |                           |                           |
| Dispo<br>retai          | se of in accord                                      | ance with applicable local, county, state, provincial and federal regulations. Emptied co<br>perties. Empty containers should be disposed of in an environmentally safe manner in acco<br>ns.                                                                                                                                                                                  | ordance wit               | :h                        |
| •••••                   |                                                      | SECTION 14 TRANSPORT INFORMATION                                                                                                                                                                                                                                                                                                                                               |                           | _                         |
|                         |                                                      |                                                                                                                                                                                                                                                                                                                                                                                |                           |                           |
| Not r<br>class<br>Inter | ified as a haza                                      |                                                                                                                                                                                                                                                                                                                                                                                | n (DOT), th<br>n Transpor | tation                    |
|                         | *************                                        | SECTION 15 REGULATORY INFORMATION                                                                                                                                                                                                                                                                                                                                              |                           |                           |
| • • • • • • • •         | • • • • • • • • • • • • • • • • • • • •              | ***************************************                                                                                                                                                                                                                                                                                                                                        | ••••••                    | • • • • • • • • • • • • • |
|                         | E III 313 INFOR<br>Section 2 "Compo                  | MATION sition, Information on Ingredients" for applicable chemicals.                                                                                                                                                                                                                                                                                                           |                           |                           |
| A11 1                   |                                                      | ACT STATUS<br>ection 2 are listed on the U.S. Environmental Protection Agency's Toxic Substances Contro<br>nadian Domestic Substance List.                                                                                                                                                                                                                                     | 1 Act (TSC                | A)                        |
| OCCUP<br>Hazar<br>Z400. | d Communication<br>1-1993 format.<br>the hazard crit | TION  and HEALTH ADMINISTRATION (OSHA) - MSDS is compliant with Occupational Safety and Health A Standard - 29 CFR 1910.1200. AMERICAN NATIONAL STANDARDS INSTITUTE - This MSDS follows t WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS) - This product has been classifie eria of the Controlled Products Regulations (CPR) and the MSDS contains all the informatio | he ANSI<br>d in accord    | dance                     |

WHMIS CLASSIFICATION (CANADA):

No Data Available

SECTION 16 -- OTHER INFORMATION

#### DISCLOSURE

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind express or implied is made with respect to the information contained herein. The data in this MSDS relates only to the specific material designated herein and does not apply to use in combination with any other material or process.

#### **DEFINITIONS**

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CEILING: (TLV-Ceiling and PEL Ceiling Limit) The ceiling exposure limit or concentration not to be exceeded for even brief times.

DOT: Department of Transportation

HMIS: The Hazardous Materials Identification System (HMIS) developed by the National Paint and Coatings Association (NPCA) to provide information on the acute health hazards, reactivity and flammability of products encountered in the workplace at room temperatures.

HMIS codes assigned for this product are only suggested ratings based on anticipated normal screen printing applications. The employer has the ultimate responsibility for assigning these ratings and should fully evaluate the MSDS, work practices and environmental conditions prior to assigning the appropriate ratings.

HMIS rating involves data interpretations that may vary from company to company.

HMIS Personal Protection Index of "X-Ask your supervisor" is given on this MSDS due to varying work conditions which may dictate different levels of protection. Please review this MSDS before determining appropriate protective equipment and beginning work.

IARC: International Agency for Research on Cancer

NFPA: National Fire Protection Association

NTP: National Toxicology Program

STEL: Short-Term Exposure Limit: ACGIH terminology for the short-term exposure limit or maximum concentration for a continuous exposure period of 15 minutes.

TLV: Threshold Limit Value. A term ACGIH uses to express the airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

TWA: Time-Weighted Average

VOC: Volatile Organic Compound

1001 TROUT BROOK CROSSING ROCKY HILL, CT 06067-3910 EMERGENCY PHONE: (860) 571-5100

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MATERIAL SAFETY DATA SHEET

Page 1 of 5

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Item No. Product Type: Tak Pak(R) 382 Instant Adhesive Ultra-Performance

38240 Part of Kit: 20420

Cyanoacrylate Ester

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients                                                                    | CAS No.                            | %                       |
|--------------------------------------------------------------------------------|------------------------------------|-------------------------|
| Ethyl cyanoacrylate<br>Poly (methyl methacrylate)<br>SILICA, AMORPHOUS, FUMED, | 7085-85-0<br>9011-14-7             | 85~90<br>10~15          |
| CRYSTALLINE-FREE,<br>PHTHALIC ANHYDRIDE*<br>HYDROQUINONE                       | 112945-52-5<br>85-44-9<br>123-31-9 | 1-3<br>0.1-1<br>0.1-0.5 |

This component is listed as a SARA Section 313 Toxic Chemical.

### Ingredients which have exposure limits

| Exposure Limits (TWA)<br>Ingredients          | ACGIH<br>(TLV)                        | OSHA<br>(PEL)                       | OTHER                       |
|-----------------------------------------------|---------------------------------------|-------------------------------------|-----------------------------|
| Ethyl cyanoacrylate                           | None                                  | None                                | 2 ppm TWA<br>9.1 mg/m3      |
| SILICA, AMORPHOUS, FUMED,<br>CRYSTALLINE-FREE | 10 mg/m3 TWA                          | 5 mg/m3 TWA                         | 3 mg/m3 TWA                 |
| PHTHALIC ANHYDRIDE                            | 1 ppm TWA<br>6.1 mg/m3<br>2 mg/m3 TWA | 1 ppm TWA<br>6 mg/m3<br>2 mg/m3 TWA | resp. dust<br>Nane          |
| HYDROQUINONE                                  | 2 mg/m3 TWA                           | 2 mg/m3 TWA                         | 2 mg/m3 TWA<br>4 mg/m3 STEL |
| Exposure Limits (STEL)<br>Ingredients         | ACGIH<br>(TLV)                        | OSHA<br>(PEL)                       |                             |
| Ethyl cyanoacrylate                           | (4 ppm)<br>(18 mg/m3)                 | (4 ppm)<br>(15 mg/m3)               |                             |

### 3. HAZARDS IDENTIFICATION

Toxicity:

Skin contact may cause burns. Bonds skin rapidly and strongly.

Primary Routes of Entry:

Signs and symptoms of Exposure:

Skin and eye irritant. None known

Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Existing Conditions
Aggravated by Exposure:

None known

| Ingredients                                                                                   | Literatur<br>Target Or | e Refere<br>gan and                  | enced<br>Other H   | leaith E | ffects | Car<br>NTP       | Cinog      | en<br>OSHA           |
|-----------------------------------------------------------------------------------------------|------------------------|--------------------------------------|--------------------|----------|--------|------------------|------------|----------------------|
| Ethyl cyanoacrylate<br>Poly (methyl methacryla<br>SILICA, AMORPHOUS, FUME<br>CRYSTALLINE-FREE | te) I                  | NLG IRR F<br>RR                      | RES                |          |        | NO<br>NO         | NO<br>N/A  | <b>70</b>            |
| CRYSTALLINE-FREE,<br>PHTHALIC ANHYDRIDE<br>HYDROQUINONE                                       | A<br>A                 | IUI<br>IC4 ALG C<br>IC3 BLO E<br>IKI | COR IRR<br>BNM CNS | EYE IMM  | IRR MU | 00<br>00<br>00 T | N/A<br>N/A | 20<br>00<br>00<br>00 |

### Abbreviations

EYE Eyes

N/A Not Applicable
AC4 ACGIH-Unclassifiable as human carc.
BLO Blood
CNS Central nervous system

AC3 ACGIH animal carcinogen.
ALG Allergen
BNM Bone Marrow
CNS Corrosive
CNS Corrosive
CNS Corrosive

IMM Immune system

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Ø 08-28-97 09:52 am 15 006 of 015

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FAX: (860) 571-5465

2 of

Product Name: Item No.:

Tak Pak(R) 382 Instant Adhesive Ultra-Performance 38240

### HAZARDS IDENTIFICATION

<u>(continued)</u>

IRR Irritant NUI Nuisance dust SKI Skin

**MUT Mutagen** RES Respiratory

### 4. FIRST AID MEASURES

Ingestion:

Ingestion is not likely. See supplemental page for

Inhalation:

emergency procedures. Remove to fresh air. If symptoms persist,

obtain medical attention. Skin Contact:

Soak in warm water. See supplemental page for emergency procedures. Flush with water. See supplemental page for

emergency procedures.

### FIRE FIGHTING MEASURES

Flash Point: Recommended

Eye Contact:

150 - 200 · F

Method: Tag Closed Cup

Carbon dioxide, foam, dry chemical

Extinguishing Agents: Special Firefighting Procedures:

Not available

Hazardous Products formed
by Fire or Therma! Decomp Irritating organic vapors
Unusual Fire or

Hazards: Explosion

None

Explosive Limits: (% by volume in air)Lower (% by volume in air)Upper 1.7% Phthalic anhydride 10.5% Phthalic anhydride

### ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak:

Flood with water to polymerize. Soak up with an inert absorbent.

### HANDLING AND STORAGE

Safe Storage:

(Contact Loctite Customer

Handling:

Store at or below 75 F Service 1-800-243-4874 for shelf Life information) Avoid contact with skin and eyes. Avoid breathing vapor.

### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Skin:

Safety glasses or goggles

Nitrile or polyethylene gloves and aprons. Do not use cotton.

Ventilation:

See supplemental page for additional information. Positive down-draft exhaust ventilation should be provided to maintain vapor concentration below TLV

Respiratory

Not available See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor

**Boiling Point:** 

pH: Solubility in Water: Specific Gravity Volatile Organic Compound (EPA Method 24)

Vapor Pressure: Vapor Density: Evaporation Rate (Ether = 1)

Clear liquid Sharp, irritati More than 300°F irritating Does not apply Polymerized 1.05 at 75.F

85.6%; 899 grams per liter Less than 0.2 mm at 75°F Approximately

Not available

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MATERIAL SAFETY DATA SHEET

Page 3 of

Product Name: Item No.:

Tak Pak(R) 382 Instant Adhesive Ultra-Performance

38240

### 10. STABILITY AND REACTIVITY

Stability:

Stable Hazardous Polymerization:

Will not occur

Incompatibility: Polymerized by contact with water, alcohols,

amines, alkalies. Not available

Conditions to Avoid: Hazardous Decomposition

Products (non-thermal): None

### TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 5000 mg/kg. Estimated dermal LD50 more than 2000 mg/kg.

### 12. ECOLOGICAL INFORMATION

No data available

### 13. DISPOSAL CONSIDERATIONS

Recommended methods of

disposal:

Polymerize as above. Incinerate in accordance with EPA and local regulations.

EPA Hazardous Waste Number

NH - Not a RCRA Hazardous Waste Material

### 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name:

Unrestricted (Not more than 450 liters); Combustible liquids, n.o.s. (Cyanoacrylate ester) (More than 450 liters)

Hazard Class or

Division:

Unrestricted (Not more than 450 liters) Combustible liquid (More than 450 liters) None (Not more than 450 liters); NA 1993 (More than 450 liters)

Identification Number:

None

2

Marine Pollutant:

Liass or Division:

UN or ID Number:

Proper Shipping Name:

Unrestricted (Not more than one pint);
Other regulated substances (More than one pint)
Unrestricted (Not more than one pint);
Class 9 (More than one pint)
None (Not more than one pint)
ID 8027 (More than one pint)

### 15. REGULATORY INFORMATION

CA Proposition 65:

No California Proposition 65 chemicals are known

to be present.

### 16. OTHER INFORMATION

Estimated NFPA(R) Code: Health Hazard: Fire Hazard:

Reactivity Hazard: Specific Hazard:

2 Does not apply

Estimated HMIS(R) Code:

Health Hazard 2\* Reactivity Hazards: Personal Protection: ž

See Section 8.

NFPA is a registered HMIS is a registered

trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.

Prepared By:

Title: Company: Stephen Repetto
Research Chemist, Health and Safety RiEGEOSTED
Loctite Corp., 1001 Tr Br Cr, Rocky RiEGEOSTED

aug 28 1997

THE MOREY CORP.

From: Loctite Corporation at 

8605712595

⊕ 08-28-97 09:54 am

₾ 008 of 015

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MATERIAL SAFETY DATA SHEET

Page 4 of

Product Name: Item No.:

Tak Pak(R) 382 Instant Adhesive Ultra-Performance 38240

16. OTHER INFORMATION

(continued)

(24hr.) Phone: Revision Date:

(860) 571-5100 April 15, 1997

Revision: 0028

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MATERIAL SAFETY DATA SHEET

Product Name: Item No.:

Tak Pak(R) 382 Instant Adhesive Ultra-Performance 38240

Supplement

INFORMATION FOR FIRST AID AND CASUALTY ON TREATMENT FOR ADHESION OF HUMAN SKIN TO ITSELF IF CAUSED BY CYANOACRYLATE ADHESIVES

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, nonsurgical first aid. Treatment of specific types of accidents are given below.

SKIN CONTACT Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin.

Avoid contact with clothes, fabrics, rags, or tissue. Contact with these materials may cause polymerization. The polymerization of large amounts of adhesive will generate heat causing smoke, skin burns, and strong, irritating vapors. Wear nitrile or polyethylene gloves and apron when handling large amounts of adhesive.

First immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action.

EYELID TO EYELID OR EYEBALL ADHESION In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation.

ADHESIVE ON THE EYEBALL Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination. gross contamination.

If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action.

It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in one half to two days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

Cyanoacrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

SURGERY It should never be necessary to use such a drastic method to separate accidentally bonded skin.

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05/26/99 07:00:24 HAZARDOUS MATERIAL SAFETY SHEET CONTROL
BILLING BATCH

6E-Silvanes

Received by top 6/3/99

56479 MOREY CORP.

2659 WISCONSIN AVE. DOWNERS GROVE , IL 60515

ELECTRICAL INSULATION SUPPLIERS Bldg 100, Ste 400 3715 Northside Parkway, NW Northcreek Office Park ATLANTA, GA 30327

PHONE # (404)487-3613 Shannon Schoper (404)487-3612 Dave Sharpe FAX # (404)609-6084

MATERIAL SAFETY DATA SHEET INFORMATION:

PLEASE FIND ENCLOSED MATERIAL SAFETY DATA SHEETS (MSDS) COVERING ITEMS PURCHASED FROM ELECTRICAL INSULATION SUPPLIERS (EIS). OSHA REGULATIONS REQUIRE MSDS INFORMATION BE MADE AVAILABLE TO ALL PERSONNEL WHO MAY BE EXPOSED TO HAZARDOUS MATERIALS IN THE WORK PLACE.

UNDER THE "EMERGENCY PLANNING COMMUNITY RIGHT-TO-KNOW ACT OF 1986" INVENTORY AND LOCATION INFORMATION, CONCERNING HAZARDOUS MATERIALS MFG JOB SITE, MAY NEED TO BE REPORTED TO THE LOCAL FIRE DEPARTMENT, THE LOCAL EMERGENCY PLANNING COMMITTEE AND THE STANDARD RESPONSE COMMISSION. YOU MAY WANT TO REFERENCE 40 CFR PART 372 FOR ADDITIONAL INFORMATION. MANUFACTURERS MUST REPORT ANNUAL RELEASES OF LISTED TOXIC CHEMICALS INTO THE ENVIRONMENT, ACCORDING TO SARA TITLE III.

ACCORDING TO 29 CFR PART 1910.1200 PARAGRAPH (g)(6) OF THE HAZARD COMMUNICATION STANDARD, A MSDS IS TO BE PROVIDED THE FIRST TIME THE CUSTOMER BUYS AN ITEM REQUIRING A MSDS. IF AT ANY TIME THE MSDS IS UPDATED OR CHANGED, THE UPDATED MSDS MUST BE SUPPLIED WITH THE FIRST SHIPMENT AFTER THE MSDS UPDATE HAS OCCURRED.

IF YOU NEED FURTHER INFORMATION CONCERNING YOUR SITUATION, YOU MAY CONTACT THE EPA IN WASHINGTON, D.C. THEIR TOLL FREE NO. IS (800)535-0202; THE RCRA/SUPERFUND HOT LINE IS (800)424-9346 OR (703)920-9810; THE TSCA HOT LINE IS (202)554-1404.

BY PROVIDING THIS DOCUMENTATION, EIS IS COMPLYING WITH FEDERAL LAWS GOVERNING MSDS INFORMATION, AS IS KNOWN TO US. THIS IS A SERVICE AIMED AT HELPING YOUR BUSINESS TO ALSO COMPLY WITH GOVERNMENT REGULATIONS.

DAVE SHARPE

"SEE THE REVERSE SIDE FOR DOCUMENT NAME AND P.O. NUMBER"

SHIP

MSDS DOCUMENT GE133

DATE CUSTOMER PURCHASE ORDER NUMBER 05/24/99 110113

BLR240

Provided By Electrical Insulation Suppliers Inc.

•

```
ENGINEERING CONTROLS:

Eyewash stations.

Use in a well ventilated area.

RESPIRATORY PROTECTION:

USE IN A WELL VENTILATED AREA.

PROTECTIVE GLOVES:

CLOTH GLOVES.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

NONE KNOWN.

VENTILATION:

Use only in well ventilated area.
```

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

```
PRODUCT INFORMATION:
 NA
 (C)
 NA
 (F)
BOILING POINT
VAPOR PRESSURE (20C) (MMHG)
 NEG.
VAPOR DENSITY (AIR=1)
 NEG.
 NA
 (C)
 NA
 (F)
FREEZING POINT
MELTING POINT
 NA
 (C)
 NA
 (F)
 SOLID
PHYSICAL STATE
 SWEET
ODOR
COLOR
 BLACK
ODOR THRESHOLD (PPM)
% VOLATILE BY VOLUME
 <4.9
EVAP. RATE (BUTYL ACETATE=1)
 <1
 1.23
SPECIFIC GRAVITY (WATER=1)
DENSITY (KG/M3)
 1230
ACID/ALKALINITY (MEQ/G)
 UNK
 NA
PH
VOC (EPA METH.24) (G/L)
 <60
SOLUBILITY IN WATER (20C)
 NEG
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): SLIGHT IN TOLUENE
```

### 10. STABILITY AND REACTIVITY

```
STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:
Carbon Monoxide.
Carbon dioxide.
Silicon dioxide.
METHANOL.
FORMAT DEHYDE
INCOMPATIBILITY (MATERIALS TO AVOID):
NONE KNOWN.
CONDITIONS TO AVOID:
NONE KNOWN.
```

### 11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION
ACUTE ORAL LD50 (MG/KG): NA
ACUTE DERMAL LD50 (MG/KG): NA
ACUTE INALATION LC50 (MG/L): NA
OTHER:
None.
AMES TEST: UNKNOWN

### 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data at this time CHEMICAL FATE INFORMATION: No data at this time

### 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NOT DOT REGULATED

DOT LABEL(S): NΑ UN/NA NUMBER: NONE PLACARDS: IATA: NA

IMO IMDG-CODE: NA

**EUROPEAN CLASS:** RID (OCTI):

NA ADR (ECE): NA RAR (IATA): NA

#### 15. REGULATORY INFORMATION

SARA SECTION 302:

None Found

SARA (311, 312) HAZARD CLASS:

ACUTE HEALTH HAZARD

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION:

WHMIS HAZARO CLASS:

D2B TOXIC MATERIALS WHMIS TRADE SECRET:

NONE

EXPORT:

SCHOLE B/HTSUS:

FCCN: 3910.00 SILICONES IN PRIMARY FORM.

HAZARD RATING SYSTEMS EAR99

FLAMMABILITY 0 , REACTIVITY 0 , HMIS HEALTH 22 **NFPA** FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 22

CALIFORNIA PROPOSITION 65: NOME

### 16. OTHER INFORMATION

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTENT OF THE INTENDED USE.....

THIS PRODUCT OR ITS COMPONENTS ARE ON THE AUSTRAILIAN INVENTORY (ACOIN).....

C = CEILING LIMIT NEGL = NEGLIGIBLE EST= ESTIMATED NF = NONE FOUND UNKN = UNKNOWN NA = NOT APPLICABLE REC = RECOMMENDED NE = NONE ESTABLISHED ND = NONE DETERMINED V = RECOMM. BY VENDOR

V = RECOMM. BY V
SKIN = SKIN
TS = TRADE SECRET
R = RECOMMENDED BY-PRODUCT = REACTION BY-PRODUCT, TSCA INVENTORY STATUS NOT REQUIRED UNDER

MST = MIST 40 CFR PART 720.30 (H-2) STEL = SHORT LIMIT EXPOSURE LIMIT NT = NOT TESTED

GE SILICONES

FORMAT: USA

MATERIAL SAFETY DATA SHEET COPYRIGHT GENERAL ELECTRIC CO.

PRODUCT: RTV133

SILICONE SEALANT

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY: GE SILICONES . SUPPLIED BY: GE SILICONES

260 HUDSON RIVER ROAD WATERFORD, CT. 12188

260 HUDSON RIVER ROAD WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

EMERGENCY PHONE (24 HRS)

(518) 237-3330

(518) 237-3330

REVISED: 06/10/98 PREPARER: CE HANNIGAN

CHEMICAL FAMILY/USE: SILICONE RUBBER

FORMULA:

MIXTURE

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| PRODUCT COMPOSITION/       | APPROX.   | ACG1H | TLV  | OSHA | PEL  |       |
|----------------------------|-----------|-------|------|------|------|-------|
| CAS REG NO.                | ₩GT. %    | TWA   | STEL | TWA  | STEL | UNITS |
|                            |           |       |      |      |      |       |
| A. HAZARDOUS               |           |       |      |      |      |       |
| TIANIUM, BIS(ETHYL ACETOA  | CETATO).  |       |      |      |      |       |
| DIISOPROPOXY-              |           |       |      |      |      |       |
| 27858-32-8                 | 1 - 5     | NE    | NA   | NE   | NA   | NA    |
| METHYLTRIMETHOXYSILANE     |           |       |      |      |      |       |
| 1185-55-3                  | 1 - 5     | NA    | NE   | NA   | NE   | NA    |
| B. NON-HAZARDOUS           |           |       |      |      |      |       |
| VINYLSTOPPED PHENYLMETHYL  | POLYMER   |       |      |      |      |       |
| 68951 - 96 - 2             | 5 - 10    | NA    | NE   | NA   | NE   | NA    |
| DIMETRIVE POLYSILOMANE SIL | ANOL/ST   |       |      |      |      |       |
| 70131-67-8                 | 30-60     | NA    | NE   | NA   | NE   | NA    |
| D4 & HNDZ TREATED SILICON  | I DIOXIDE |       |      |      |      |       |
| 68937-51-9                 | 10-30     | 10    | NE   | 15   | NE   | MG/M3 |
| QUARTZ                     |           |       |      |      |      |       |
| 14808 - 60 - 7             | 10-30     | 0.1   | NE   | 0.1  | NE   | MG/M3 |
|                            |           |       |      |      |      |       |

SEE SECTION 15 FOR DESCRIPTION OF ANY WHMIS TRADE SECRET(S).

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

This section not in use

POTENTIAL HEALTH EFFECTS:

INGESTION:

MAY BE harmful if swallowed.

SKIN CONTACT:

UNCURED PRODUCT WILL IRRITATE LIPS, GUMS AND TONGUE.

UNCURED PRODUCT CONTACT MAY IRRITATE THE SKIN.

INHALATION:

CAUSES MILD RESPIRATORY IRRITATION.

APPLIES ONLY IN UNCURED STATE.

EYE CONTACT:

UNCURED PRODUCT CONTACT IRRITATES EYES.

MEDICAL CONDITIONS AGGRAVATED:

NONE KNOWN.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

NONE KNOWN.

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by

NTP, IARC, or OSHA. PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Eyes.

DERMAL SKIN

OTHER:

METHANOL RELEASED DURING CURING. THIS PRODUCT CONTAINS METHYL-POLYSILOXANES WHICH CAN GENERATE FORMALDEHYDE AT APPROXIMATELY 300 DEGREES FARENHEIT (150°C) AND ABOVE, IN ATMOSPHERES WHICH CONTAIN OXYGEN. FORMALDEHYDE IS A SKIN AND RESPIRATORY SENSITIZER, EYE AND THROAT IRRITANT, ACUTE TOXICANT, AND POTENTIAL CANCER HAZARD. AN MSDS FOR FORMALDEHYDE IS AVAILABLE FROM GE SILICONES.

#### 4. FIRST AID MEASURES

#### INGESTION:

RINSE MOUTH WITH WATER SEVERAL TIMES.

SKIN

TO CLEAN FROM SKIN, REMOVE COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE WASHING WITH DETERGENT AND WATER. GET MEDICAL ATTN. IF IRRITATION PERSISTS.

INHALATION:

MOVE PERSON TO FRESH AIR.

EYES

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention IF IRRITATION PERSISTS.

NOTE TO PHYSICIAN:

None Known.

#### 5. FIRE FIGHTING MEASURES

| FLASH POINT:      |                           | NA        | (C) | NA | (F) |
|-------------------|---------------------------|-----------|-----|----|-----|
| METHOD            | :                         | NA        |     |    |     |
| IGNTIION TEMP     | :                         | NA        | (C) | NA | (F) |
| FLAMMABLE LIMITS  | IN AIR - LOWER(%):        | NA        |     |    |     |
| FLAMMABLE LIMITS  | IN AIR - UPPER(%):        | NA        |     |    |     |
| SENSITIVITY TO ME | CHANICAL INPACT (Y/M):    | NO        |     |    |     |
| SENSITIVITY TO ST | ATIC DISCHARGE:           |           |     |    |     |
| Sensitivity to    | static discharge is NOT E | EXPECTED. |     |    |     |
| EXTINGUISHING MED | IA:                       |           |     |    |     |
| All standard f    | irefighting media.        |           |     |    |     |
| SPECIAL FIREFIGHT | ING PROCEDURES:           |           |     |    |     |
| NONE KNOWN.       |                           |           |     |    |     |

### 6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wipe, scrape or soak up in an inert material and put in a

wipe, scrape or soak up in an inert material and put in a container for disposal.

WASH WALKING SURFACES WITH DETERGENT AND WATER TO REDUCE SLIPPING HAZARD. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION.

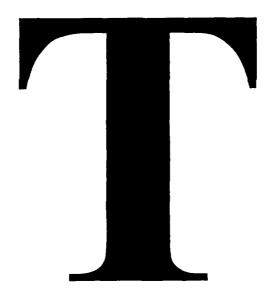
#### 7. HANDLING AND STORAGE

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID CONTACT WITH SKIN AND EYES. CAUTION! COMBUSTIBLE. REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGERTIPS, NAILS AND CUTICLES. RESIDUAL SEALANT MAY REMAIN ON FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE SEVERE EYE IRRITATION. PRODUCT RELEASES METHANOL DURING APPLICATION AND CURING. (METHANOL TLV=200 PPM). UNCURED PRODUCT CONTACT IRRITATES EYES. UNCURED PRODUCT CONTACT MAY IRRITATE SKIN.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION





MOR 001339

100 Morey Drive Woodridge Illinois 60517 Tet: 630 754 2300 | Fax: 630 754 2001 www.moreycorp.com



#### Rec. 6/4/01 SHEET MATERIAL SAFETY DATA

### MATERIAL SAFETY DATA SHEET

Page 1 of Revised 12/30/99 Replaces 4/16/99 6/08/01

### TRIBOL 930 HIGH TEMPERATURE CHAIN OIL **GTI**

Printed

### A. Chemical Product and Company Identification

Product Name: TRIBOL 930 HIGH TEMPERATURE

CHAIN OIL

General Use: See Product Data Sheet

Product Description: See Product Data Sheet.

1SDS Code: 71860A

Synonyms/Trade Names: Same as product name.

Manufacturer: Castrol Industrial North America Inc.

Address (Line 1): 1001 West 31st Street

Address (Line 2): Downers Grove, IL 60515-1280

Emergency Phone: 1-800-424-9300 (CHEMTREC)

Information Phone: 1-800-621-2661

Regulatory Questions/MSDS Preparation - SHEA Department Product Chemistry/Application Questions - Technical Support

If available in Canada, this product is supplied by:

Castrol Canada Inc.

3660 Lakeshore Blvd. West Toronto, Ontario M8W 1P2

Information Phone: 416-252-5511

| B. Composition/Information on Ingredients                              |           |                |            |                 |  |  |
|------------------------------------------------------------------------|-----------|----------------|------------|-----------------|--|--|
| Ingredient Name                                                        |           | CAS Number     | *          |                 |  |  |
| Contains no ingredients now known                                      | n to be l | hazardous by O | SHA        |                 |  |  |
| CAS Number Exposure Guideline                                          | ∋         |                |            |                 |  |  |
| If applicable, the exposure limit for TWA unless otherwise noted.      |           |                | n the ACGI | iH TLV guide    |  |  |
| 313 Listed Chemicals If none listed here, or in Secti threshold value. | ion O,the | ere are no 313 | chemicals  | s present ab ve |  |  |
|                                                                        |           |                |            |                 |  |  |

MOR 001340

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FPA:

### MATERIAL SAFETY DATA SHEET

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RIBOL 930 HIGH TEMPERATURE CHAIN OIL

C. Hazards Identification

Appearance:

lear yellowish liquid. Faint characteristic odor.

Health 1

Flammability 1

Reactivity 0

Special

otential Health Effects

Eye: May cause eye irritation.

Skin Contact: May cause skin irritation. Skin Absorption: No acute effects expected.

Ingestion: LD 50 not established. Do not ingest. Ingestion may irritate the

gastrointestinal tract and may cause nausea and vomiting.

Inhalation: Vapors may irritate the mucosal membranes of mouth, nose, and throat. Intense and/or prolonged exposure to vapor concentrations exceeding the TLV/PEL may cause headache, nausea, and vomiting. Oil vapors may accumulate in the lungs, and may cause chemical

pneumonitis.

Chronic Effects: A review of the literature does not show obvious long term

hazard.

Carcinogenicity: No component known to be present in this product at >0.1% is

presently listed as a carcinogen by IARC, NTP or OSHA, unless otherwise noted in Section P - Other Information.

outes of Exposure: Skin contact. Rye contact. Inhalation.

### D. First Aid Measures

Rye: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention immediately.

Skin: Wipe off, then wash thoroughly with soap and water. Get medical

attention if irritation occurs.

Ingestion: If the individual is conscious, give 1-2 glasses of milk or water to dilute stomach content. Do not physically induce vomiting.

Never give anything by mouth to an unconscious person. Get prompt

medical attention.

Inhalation: Immediately remove the individual to fresh air. If breathing is difficult, administer oxygen. If breathing stops, administer

artificial respiration. Get prompt medical attention.

### R. Fire Fighting Measures

lammable Properties

Flash Point (degrees F/C): 545°F / 285°C Method:

Upper Flammable Limit: Not available Lower Flammable Limit: Not available

Autoignition Temperature: Not determined

Hazardous Products of Combustion: Potential combustion products are oxides

MATERIAL SAFETY DATA SHEET

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RIBOL 930 HIGH TEMPERATURE CHAIN OIL

Printed 6/08/01

### R. Fire Fighting Measures (Cont.)

of carbon and nitrogen.

Properties That Could Increase Fire or Explosion Hazard: None known. xtinguishing Media: Dry chemical, water-fog, chemical foam, or CO2. Direct water-stream may cause frothing.

ire Fighting Instructions: Wear self contained breathing apparatus when fire fighting in a confined space. Cool fire exposed containers with waterspray to prevent rupture.

### F. Accidental Release Measures

ear adequate protection and eliminate all sources of ignition. Stop the leak, f it can be safely done. Ventilate the area and dike the spill to prevent ntry into sewer or watercourses. Absorb with an oil-absorbent. Advise uthorities if product has entered or may enter sewers, watercourses or xtensive land areas.

### G. Handling and Storage

eep containers closed when not in use. Do not store near heat, sparks, flame r strong oxidants. Store in a clean, dry area below 49C/12OF, away from all gnition sources and incompatible materials. Avoid contact with skin and eyes. void breathing mists.

### H. Exposure Controls/Personal Protection

'ersonal Protective Equipment (PPE)

Eye/Face Protection: Wear chemical safety goggles plus full face shield to protect against splashing.

Skin Protection: Oil-impervious and solvent-resistant (e.g. neoprene) type.

Respiratory Protection: Good industrial hygiene practices recommend that engineering controls be used to reduce environmental concentrations to the threshold limit value (TLV) or permissible exposure limit (PEL). If any associated TLV or PEL is exceeded, provide NIOSH approved respiratory protection. This product does not constitute a health or physical hazard during normal industrial use. As in all industrial applications, adequate ventilation and good hygienic practices are

Other: Eyewash facility. Oil-impervious (e.g. neoprene) clothing to avoid skin contact.

Exposure Guidelines: See information provided in Section B, Ingredients.

advisable.

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MATERIAL SAFETY DATA SHEET

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'RIBOL 930 HIGH TEMPERATURE CHAIN OIL

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### I. Physical and Chemical Properties

Appearance/Odor:

Clear yellowish liquid. Faint characteristic odor.

pH (conc): Not applicable pH at

at :Not applicable

Vapor Pressure (mm Hg): Not determined Vapor Density (Air = 1): Not determined

Boiling Point (degrees F/C): Not known / Not known

Freezing Point (degrees F/C): not determined

Melting Point (degrees F/C): Not known / Not known

Solubility in Water: Negligible

Specific Gravity at 60 degrees F (H20 = 1): 0.9900 +/-

Density: Not calculated

Softening Point (degrees F): Not determined

Evaporation Rate (n-Butyl Acetate = 1): Not determined

Viscosity: Not available
Bulk Density: Not determined
% Volatile: Not determined

VOC: Not testedlbs/gallon Method: Not Tested Octanol/Water Partition Coefficient: Not determined

Saturated Vapor Concentration: Not determined

Molecular Weight: Not applicable

### J. Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Conditions To Avoid: Prolonged exposure to elevated temperatures.

Incompatibility With Other Materials: Strong oxidizers, acids and alkalies. Hazardous Decomposition Products: Potential combustion products are oxides of

carbon and nitrogen.

### K. Toxicological Information

Eye Effects: May cause eye irritation.

Skin Effects, Contact: May cause skin irritation. Skin Effects, Absorption: No acute effects expected.

Acute Oral Effects (Ingestion): LD 50 not established. Do not ingest.

Ingestion may irritate the gastrointestinal

tract and may cause nausea and vomiting.

Acute Inhalation Effects: Vapors may irritate the mucosal membranes of mouth,

nose, and throat. Intense and/or prolonged exposure to vapor concentrations exceeding the TLV/PEL may cause headache, nausea, and vomiting. Oil vapors may accumulate in the lungs, and may cause chemical

pneumonitis.

Chronic Effects: A review of the literature does not show obvious long term

hazard.

Carcinogenicity: No component known to be present in this product at >0.1% is

presently listed as a carcinogen by IARC, NTP or OSHA, unless otherwise noted in Section P - Other Information.

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RIBOL 930 HIGH TEMPERATURE CHAIN OIL

### L. Ecological Information

Ecotoxicological Information: No specific ecological data available for this product.

### M. Disposal Considerations

US EPA Hazardous Waste Numbers:

This product as purchased does not fall under current U.S. EPA RCRA definitions of hazardous waste. Under RCRA it is the generator's responsibility to determine the status of the waste at the time of its disposal.

General Disposal Considerations:

Dispose of in accordance with local, state and federal regulations. Disposal of this material to the land may be banned by federal law (40 CFR 268).

CRRCLA Reportable Quantity: This product does not contain any CERCLA egulated materials.

### N. Transport Information

Hazardous Materials Description/Proper Shipping Name:

Not Regulated.

Hazard Class: Same As Above

Identification Number (UN or NA Number): Same As Above

Packing Group: Same As Above

Freight Class:

NMFC 155250. PETROLEUM OILS, GREASES & RELATED PRODUCTS, NOI CLASS 65.

Telephone Number for Transport Instructions: 1-800-621-2661, SHEA Department

### O. Regulatory Information

I.S. Federal Regulations:

Hazardous per OSHA 29 CFR 1910.1200: Yes

CERCLA/EPCRA:

Section 302 Extremely Hazardous Substances (EHS): No listed ingredients are present on the 302 list.

Section 311/312 Hazard Class(es): Immediate: YES Delayed: NO Fire: NO Reactivity: NO Sudden Release of Pressure: NO

Section 313 Toxic Chemicals: f none listed here or in Section B, there are no 313 chemicals present above hreshold value.

MOR 001344



### MATERIAL SAFETY DATA SHEET

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TRIBOL 930 HIGH TEMPERATURE CHAIN OIL

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### O. Regulatory Information (Cont.)

Other U.S. Federal Regulations: This product is a mixture and is NOT listed in the TSCA inventory. The individual ingredients in the product ARE listed in the TSCA inventory.

International Regulations: CANADA: All components of this material are listed on the Canadian Domestic Substance List (DSL).

This product is non-controlled under W.H.M.I.S.

### P. Other Information

No component known to be present in this product at >0.1% is presently listed as a carcinogen by IARC, NTP or OSHA.

### Q. Disclaimer

Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or the use of any product in violation of any patent, or in violation of any law or or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose, and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, must necessarily disclaim all liability with respect to the use of any material supplied by us.

MOR 001345

#### PREPARED BY DISTRIBUTOR:



Refer to ANSI Z49.1

A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131

## Rec. 3/8/01 Fast MATERIAL SAFETY DATA SHEET

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1986 and of 40CFR72). ISSUE DATE

November 25, 1985

REVISED

October 1, 1997

For Information or In An Emergency Call: (847) 455-7111

| Various                                                                                                                                                                                                                                                                                                                                   |                            |                                               |                                                                                             |                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------|
| Product Name / Trade Name                                                                                                                                                                                                                                                                                                                 |                            | Common t                                      | Name / Grade                                                                                | <del></del>                                          |
| Titanium                                                                                                                                                                                                                                                                                                                                  |                            |                                               | Titanium CP,                                                                                | Titanium 6-4, etc.                                   |
|                                                                                                                                                                                                                                                                                                                                           |                            | grande en en en en en en en en en en en en en |                                                                                             |                                                      |
| NOTE: Products Under Normal Conditions Do Not  Base Metal, Alloying Elements                                                                                                                                                                                                                                                              | Represent An Inhalation, I | ngestion or Contact H                         | ealth Hazard.                                                                               |                                                      |
| And Metallic Coatings                                                                                                                                                                                                                                                                                                                     | CAS#                       | WT % (1) O                                    | SHA PEL (mg/g <sup>2</sup> ) (3)                                                            | ACGIH TLV TWA (Unless Noted Otherwise) (mg/m²        |
| Base Metal                                                                                                                                                                                                                                                                                                                                |                            |                                               |                                                                                             |                                                      |
| Titanium                                                                                                                                                                                                                                                                                                                                  | 7440-32-6                  | 46-90                                         | 15                                                                                          | 10 (As Titanium Dioxide)                             |
| Alloying Elements                                                                                                                                                                                                                                                                                                                         |                            |                                               |                                                                                             | (                                                    |
| Aluminum (Al)                                                                                                                                                                                                                                                                                                                             | 7429-90-5                  | 0-6                                           | 15                                                                                          | 10 (Total Dust)                                      |
| Vanadium (V)                                                                                                                                                                                                                                                                                                                              | 7440-62-2                  | 0-10                                          | 0.5                                                                                         | .05 (Respirable Dust)                                |
| Iron (Fe)                                                                                                                                                                                                                                                                                                                                 | 7439-89-6                  | 0-48                                          | 10                                                                                          | 5 (As Iron Oxide)                                    |
| Molybdenum (Mo)                                                                                                                                                                                                                                                                                                                           | 7439-98-7<br>7440-31-5     | 0-6                                           | 15                                                                                          | 10 (Insoluble Compound)                              |
| Tin (Sn)<br>Zirconium (Zr)                                                                                                                                                                                                                                                                                                                | 7440-51-5                  | 0-5<br>0-4                                    | 2<br>5                                                                                      | 2<br>5                                               |
| Manganese (Mn)                                                                                                                                                                                                                                                                                                                            | 7439-96-5                  | 0-5                                           | . 5                                                                                         | 0.2                                                  |
| Tantalum (Ta)                                                                                                                                                                                                                                                                                                                             | 7440-25-7                  | <1                                            | 5                                                                                           | 5                                                    |
| Titanium 6-2-2-2 + 5-2-2-4-4                                                                                                                                                                                                                                                                                                              |                            |                                               | -                                                                                           | •                                                    |
| Chromium (Cr)                                                                                                                                                                                                                                                                                                                             | 7440-47-3                  | 2-6                                           | 0.5                                                                                         | .5                                                   |
| Titanium 2.5 + 6-2-1-1                                                                                                                                                                                                                                                                                                                    |                            |                                               |                                                                                             |                                                      |
| Copper (Cu)                                                                                                                                                                                                                                                                                                                               | 7440-50-8                  | 2-2.5                                         | 1                                                                                           | 1 (Dust & Mist)                                      |
| Titanium .38                                                                                                                                                                                                                                                                                                                              |                            |                                               |                                                                                             |                                                      |
| Nickel (Ni)                                                                                                                                                                                                                                                                                                                               | 7440-02-0                  | .8                                            | 1                                                                                           | 0.5                                                  |
| Nickel (Ni)  (1) % Of Alloying Material Varies With Grade Of Ma                                                                                                                                                                                                                                                                           | 10.12                      | (2) 19<br>(3) 19                              | 196 ACGIH Threshold<br>193 OSHA Permissabi                                                  | Limit Value.<br>e Exposure Limit                     |
| (1) % Of Alloying Material Varies With Grade Of Ma                                                                                                                                                                                                                                                                                        | 10.12                      | (2) 19<br>(3) 19                              | 96 ACGIH Threshold<br>93 OSHA Permissabl                                                    | Limit Value.<br>e Exposure Limit                     |
| (1) % Of Alloying Material Varies With Grade Of Ma                                                                                                                                                                                                                                                                                        | 10.12                      | (2) 19<br>(3) 19                              | 96 ACGIH Threshold<br>93 OSHA Permissabl                                                    | Limit Value.<br>e Exposure Limit.                    |
| (1) % Of Alloying Material Varies With Grade Of Ma<br>Laterial Is (At Normal Conditions)<br>Solid                                                                                                                                                                                                                                         | 10.12                      | (2) 19<br>(3) 19<br>Appearance                | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic                    | Limit Value.<br>e Exposure Limit.                    |
| (1) % Of Alloying Material Varies With Grade Of Ma                                                                                                                                                                                                                                                                                        | 10.12                      | (2) 19<br>(3) 19                              | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic                    | Limit Value.<br>e Exposure Limit.                    |
| (1) % Of Alloying Material Varies With Grade Of Ma<br>Laterial Is (At Normal Conditions)<br>Solid                                                                                                                                                                                                                                         | 10.12                      | (2) 19<br>(3) 19<br>Appearance                | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic                    | Limit Value.<br>e Exposure Limit.                    |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions) Solid  Letting Point (Base Metal) 1560 - 1840° C                                                                                                                                                                                                       | 10.12                      | (2) 19<br>(3) 19<br>Appearance                | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity         | Limit Value.<br>e Exposure Limit.                    |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions) Solid Netting Point (Base Metal) 1560 - 1840° C                                                                                                                                                                                                        | 10.12                      | (2) 19<br>(3) 19<br>Appearance                | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity         | Limit Value.<br>e Exposure Limit.                    |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions) Solid  letting Point (Base Metal) 1560 - 1840° C  xtinguishing Media See Special Precautions                                                                                                                                                           | 10.12                      | (2) 19<br>(3) 19<br>Appearance                | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity         | Limit Value.<br>e Exposure Limit.                    |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions) Solid Netting Point (Base Metal) 1560 - 1840° C                                                                                                                                                                                                        | 10.12                      | (2) 19<br>(3) 19<br>Appearance                | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity         | Limit Value.<br>e Exposure Limit.                    |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions) Solid letting Point (Base Metal) 1560 - 1840° C  xtinguishing Media See Special Precautions special Firefighting Procedures See Special Precautions                                                                                                    | 10.12                      | (2) 19<br>(3) 19<br>Appearance                | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity         | Limit Value.<br>e Exposure Limit.<br>Odorless        |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions) Solid Netting Point (Base Metal) 1560 - 1840° C  Extinguishing Media See Special Precautions Special Firefighting Procedures See Special Precautions                                                                                                   | sterial.                   | (2) 19 (3) 19 Appearance Specific G           | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity<br>NA   | Limit Value. e Exposure Limit.  Odorless  MOR 001346 |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions) Solid Netting Point (Base Metal) 1560 - 1840° C  xtinguishing Media See Special Precautions See Special Precautions Inusual Fire and Explosion Hazards This product does not burn, he                                                                  | owever, grinding or p      | (2) 19 (3) 19 Appearance Specific G           | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity<br>NA   | Limit Value.<br>e Exposure Limit.<br>Odorless        |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions)  Solid  Melting Point (Base Metal)  1560 - 1840° C  xtinguishing Media  See Special Precautions  See Special Precautions  Inusual Fire and Explosion Hazards  This product does not burn, he can result in a finely divided w                          | owever, grinding or p      | (2) 19 (3) 19 Appearance Specific G           | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity<br>NA   | Limit Value. e Exposure Limit.  Odorless  MOR 001346 |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions) Solid letting Point (Base Metal) 1560 - 1840° C  xtinguishing Media See Special Precautions special Firefighting Procedures See Special Precautions Inusual Fire and Explosion Hazards This product does not burn, he can result in a finely divided w | owever, grinding or p      | (2) 19 (3) 19 Appearance Specific G           | 196 ACGIH Threshold<br>193 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity<br>NA | Limit Value. e Exposure Limit.  Odorless  MOR 001346 |
| (1) % Of Alloying Material Varies With Grade Of Material Is (At Normal Conditions)  Solid  Melting Point (Base Metal)  1560 - 1840° C  xtinguishing Media  See Special Precautions  See Special Precautions  Inusual Fire and Explosion Hazards  This product does not burn, he can result in a finely divided w                          | owever, grinding or p      | (2) 19 (3) 19 Appearance Specific G           | 96 ACGIH Threshold<br>93 OSHA Permissabl<br>ce and Odor<br>Gray-Metallic,<br>ravity<br>NA   | Limit Value. e Exposure Limit.  Odorless  MOR 001346 |

| Product  | _ |  |
|----------|---|--|
| Titanium |   |  |

| Section      | n 6 - Health Hazard Data                               | har english the transfer                            | 19 1 美国被审查经济发展                                                                                  |                                                                                                                 |                                                         |
|--------------|--------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| NOTE: S      | STEEL PRODUCTS IN THE NAT<br>BURNING, WELDING, SAWING, | TURAL STATE DO NOT PRESE<br>BRAZING AND GRINDING MA | ENT AN INHALATION, INGESTION OF<br>AY RELEASE FUMES AND/OR DUSTS                                | CONTACT HAZARD. HOWEVER WHICH MAY PRESENT HEALTH                                                                | OPERATIONS SUCH AS HAZARDS IF TLV'S ARE EXCEEDED        |
| MAJOR 1      | EXPOSURE HAZARD                                        |                                                     |                                                                                                 |                                                                                                                 |                                                         |
| ⊠ı           | Inhalation                                             | Skin Contact                                        | Skin Absorption                                                                                 | Eye Contact                                                                                                     | Ingestion                                               |
| Effects of   | Overexposure                                           |                                                     |                                                                                                 |                                                                                                                 |                                                         |
|              |                                                        | n dioxide has been four<br>material has shown pa    |                                                                                                 | contact with titanium dus                                                                                       | t may cause physical abrasion.                          |
|              | Aluminum and molybo                                    | denum dust/fines and fi                             | umes are low health risk by i                                                                   | nhalation and should be tr                                                                                      | eated as a nuisance dust.                               |
|              |                                                        |                                                     | ormed oxide fumes of iron, m<br>h, dryness and irritation of th                                 |                                                                                                                 |                                                         |
|              | Toxicology Program (                                   | NTP). Exposure to high                              | are listed in the 3rd Annual R<br>h concentrations of dust and<br>nd possible cancer of nasal p | fumes can cause sensitiz                                                                                        | prepared by the National ation dermatitus, inflammation |
|              | Recent epidemiologic cancer.                           | al studies of workers m                             | nelting and working alloys cor                                                                  | ntaining nickel/chromium h                                                                                      | nave found no increased risk of                         |
| Suspected    | ed Cancer Agent?NO:<br>XYES                            | This product's ingredients are s                    |                                                                                                 |                                                                                                                 |                                                         |
| Emergenc     | cy and First Aid Procedures                            |                                                     |                                                                                                 |                                                                                                                 |                                                         |
|              | •                                                      |                                                     | s, remove to fresh air, seek n                                                                  | nedical aid immediately.                                                                                        |                                                         |
|              | Eyes - Flush with wate                                 | er for at least 15 minute                           | <del>.</del> 55.                                                                                |                                                                                                                 |                                                         |
| Section      | n 7 - Spill or Leak Proced                             | ures                                                |                                                                                                 |                                                                                                                 |                                                         |
| Spill or Lea | eak Procedures                                         |                                                     |                                                                                                 |                                                                                                                 |                                                         |
|              | NA                                                     |                                                     |                                                                                                 |                                                                                                                 |                                                         |
| waste Dist   | sposal Methods  According to local, sta                | ite and federal regulation                          | ons                                                                                             |                                                                                                                 |                                                         |
| Section      | n 8 - Special Protection                               | god of the                                          | 30 Jan (#1.5)                                                                                   | 4-13-33-4 <del>-18-8-3</del> -                                                                                  | \$4.65 or 18.00 or 18.00                                |
| Respirator   | ry                                                     |                                                     | spirator should be used to av                                                                   | oid excessive inhalation o                                                                                      | f particulates when                                     |
| Ventilation  |                                                        |                                                     | when welding, burning, sawing                                                                   | g, brazing, grinding or mad                                                                                     | chining when                                            |
| Eye Protec   | ection and Protective Clothing                         |                                                     |                                                                                                 |                                                                                                                 |                                                         |
|              | as required by the wel                                 | lding standards.                                    | as required by exposure. Ot                                                                     |                                                                                                                 | should be utilized                                      |
| Section      | n 9 - Special Precautions                              | was freely at the species were                      | gadinin kurasin sugar sang baga sang di sang b                                                  | شنها كالهابي والمعدرة الأحوالة الإسارات المعادرة المعادرة المعادرة المعادرة المعادرة المعادرة المعادرة المعادرة | •                                                       |
|              |                                                        | enerated, special precar<br>k areas free of the was | utions and firefighting proced                                                                  | lures should be followed:                                                                                       | MOR 001347                                              |
|              |                                                        | and keep away from h                                | eat and open flame - mainta                                                                     | in humidity above 50% to p                                                                                      | orevent an electrostatic                                |
|              | 4) Use non-                                            | sparking metal equipme<br>hing media: dry chemic    | ent.<br>cal powders, salts or inert ga                                                          | s. Do not use water or liqu                                                                                     | uid: explosion hazard                                   |
| The infor    | ormation in this MSDS was obta                         | sined from sources which we l                       | believe are reliable. However, the inf                                                          | formation is provided without any                                                                               | representation or warranty, express or                  |

implied, regarding the accuracy or correctness.

The conditions or methods of handling storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.

#### 2732-10m

#### PAGE 1 OF 2

TTERIAL SAFETY DATA SHEET REV. 2 NO. 1133 LYCORR SOLDERS, INC. DATE PREPARED: JUNE 13,1993

1751 JAY ELL M., RICHASSON, TX. 75081 INFURNATION: 214-239-1224

DERSENCY: (800-624-500) DALY IN THE EVEN OF CHÉNICAL EXEMINATION & SPILL, LENK, FIDE, EXPOSURE, OR ACCIDENT INVILVING CHERICALS.

N.F.P.A. / HEALTH: 1 FIRE: 3 REACTIVITY: 0 MEPROE: RESET L. SLIENT/TECHNICAL INVISER TRANSPORTATION 3.8.1. PROPER SHIPP DG INVE: RESDI SOLUTION 3.8.1. HAZARO CLASS: FLAMPLE LIBITION REQUIREMENTS UNVIA CODE: UNISSE 3.8.1. LABEL RESUITED: FLAMPLE PROXIDE SCLIP: II

IDENTITY: (THIS HERS CORES ALL OF THE FOLLANDS PRODUCTS): CHEMICAL(S)

FLUX THINNER

X732-10m (BA0019) THINNER POR X32-10m (BA0010) PLUX

#### SECTION I CHARACOUS DEPONDED / IDENTITY DETERMINDO

| MAZAROOLIS COMPONENTS    | CAS. NUMBER                          | 034 199.                 | ACSER TU                     | SARA 31.3<br>THEOSER |
|--------------------------|--------------------------------------|--------------------------|------------------------------|----------------------|
| I SOPROPANOL<br>METHANOL | 67-63-0<br>67-56-1                   | 400 ppm<br>200 ppm(skin) | 400 ppm<br>200 ppm(skin)     | 40-50<br>40-50       |
| SECTION                  | I I OHYSICAL/OHRICAL CHRACTERISTICS) | ···                      | <del></del>                  |                      |
| BOILING POINT:           | O<br>(P) 148-177                     | SPECIFIC GRAVITY         | 0<br>(WATER=1): <b>(25</b> C | .79                  |

VAPOR PRESSURE(mm Hg.) 668 P 64 PERCENT VOLATILE BY VOLUME: 100
VAPOR DESITY(AIR=1): 1.6 EVAPORATION RATE GUIL ACTATE) 1.8
APPEARANCE AND ODOR: CLEAR, HOBILE LIQUID WITH ALCOHOLIC ODOR.

SOLUBILITY IN WATER: SOLUBLE

#### SECTION III FIX NO EPILISION HAVAND MATAN

PLASH POINT (HETHOD USED): 55 F (ACC) FLAMMABLE LIMITS: UL 3 UL: 24 ETIDENISHDE HENA: CARBON DIOXIDB, ALCOHOL RESISTANT FOAM, DRY CHEMICAL

SPEIN FIRE FIRMING PROCEDURES: EVACUATE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR PROTECTIVE CLOTHING, INCLUDING NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNITIAL FIRE AND EXPLOSION HAVARDS: NONE KNOWN

#### SECTION IV GEACILYIN MIN

STABLE? NO STABLE? YES

COOITIOS TO MOTO: AVOID HEAT, SPARKS, OPEN PLANES.

DEOPATIBILITY GATERIALS TO ANDIO): STRONG OXIDIZERS

ALAROGA DECOPOSITION OF MISCOURTS: CARBON MONOXIDE, CARBON DIOXIDE

WINDLE PLYERILATION: MAY OCCUR? NO WILL NOT OCCUR? YES

DOITION TO MOID: NONE KNOWN

1/A - NOT APPLICABLE

#### PAGE 2 OF 2

#### SECTION V DEATH HAZARD MITAD

RBV. 2 No. 1133

<u>rcute(s) of entry:</u> inhalation? YES skin? NO ingestion? YES other: None

#### HEALTH HAZAROS (ACUTE AND CHRONIC)

NOTE: LIQUID OR VAPOR CONTACT HAY CAUSE IRRITATION OF THE EYES, SKIN, HOSE, THROAT, AND RESPIRATORY SYSTEM AND HAY RESULT IN CENTRAL NERVOUS SYSTEM (ONS) DEPRESSION. THIS MATERIAL IS TOXIC AND MAY BE HARDFUL IF SWALLOWED. OFDIG PROLONGED CONTACT WITH THE SKIN MAY CAUSE REDNESS, DRYING AND CHACKING TO THE SKIN. PROLONGED OVEREXPOSURE TO SOLVENTS MAY CAUSE PERHANENT BRAIN AND NERVOUS DAMPAGE.

CARCINOSENICITY: NTP? NO IARC NONOGRAPHS? NO., OSHA REGULATED? NO OTHER: NONE NO INGREDIENTS LISTED AS CARCINOGENS.

#### SING AND SYMPTONS OF EXPOSURE:

IRRITATION, HEADACHE, DIZZINESS, NAUSEA, INCOORDINATION, DROWSINESS AND LOSS OF CONSCIOUSNESS.

#### NEDICAL CONDITIONS REDIEVALLY AGGRAPATED BY EXPOSURE:

NONE PRESENTLY KNOWN.

#### EVERGENCY AND FLOST ATO PROCEDURES:

EYES: FLUSH WITH COPIOUS QUANTITIES OF WATER. GET HEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INHALATION: REMOVE FROM EXPOSURE. GET MEDICAL ATTENTION IF EXPERIENCING EFFECT OF OVEREXPOSURE. MESSION: GET INNEDIATE MEDICAL ATTENTION. INDUCE VONITING BY TOUCHING PINGER TO BACK. OF THROAT. KEEP VICTIH'S HEAD BELOW HIPS WHILE VOMITING.

#### SECTION VI OPRECAUTIONS FOR SAFE HANDLING AND USED

#### STEPS TO BE TAKEN IN CASE NATERIAL IS RELEASED OR SPILLED.

ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. ABSORB SPILLED MATERIAL WITH ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINER.

#### WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, PEDERAL REGULATIONS. RECOMMENDED HETHOD IS INCINERATION.

#### PRECAUTIONS TO BE TAKEN IN MANOLING AND STURING:

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. KEEP CONTAINERS TIGHTLY CLOSED. GROUND ALL HANDLING EQUIPMENT. STORE IN A COOL, DRY PLACE.

OTHER PRECAUTIONS: HINIMIZE SKIN CONTACT.

#### SECTION VII (CONTRACTORS)

#### RESPIRATORY PROTECTION (SPECIFY TYPE):

IP EXPOSURE EXCEEDS LIMITS, USE A NIOSH-APPROVED RESIDENTOR.

MOR 001349

VENTILATION: LOCAL EXHAUST: PREFERABLE

SPECIAL:

NONE NEEDED

MECHANICAL (GENERAL): ADEQUATE

OTHER:

NONE NEEDED

PROTECTIVE GLOWES: NEOPREME, VITON, BUTYL, NITRILE DE PROTECTION: CHEMICAL GOOGLES

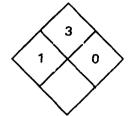
#### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WEAR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. SAFETY SHOWER AND EYE WASH STATION.

## TMC# 1224267 9.26-01

## MATERIAL SAFETY DATA SHEET

ALPHA METALS 600 Route 440 Jersey City, NJ 07304 Telephone: 201-434-6778



NUMBER: 199

**REVISION: 10/31/94** 

### **SECTION I - GENERAL INFORMATION**

PRODUCT NAME

425 Thinner

(NUMBER)

CHEMICAL FAMILY

Alcohol.

D.O.T HAZARD CLASS

Flammable liquid.

#### **SECTION II - HAZARDOUS INGREDIENTS**

| INGREDIENTS       | CAS NUMBER | WEIGHT<br>PERCENT | OSHA PEL     | ACGIH TLV    |
|-------------------|------------|-------------------|--------------|--------------|
| Isopropyl Alcohol | 67-63-0    | 100               | 400 ppm      | 400 ppm      |
|                   |            | ·                 | Stel 500 ppm | Stel 500 ppm |

This product is hazardous as defined in 29 CFR1910.1200. OSHA HAZARD-Eye irritant.

#### SECTION III - PHYSICAL DATA

(PUBLISHED or ESTIMATED VALUES)

| BOILING POINT Deg. F.   | 180         | SPECIFIC GRAVITY (H,O = 1)       | 0.783 |
|-------------------------|-------------|----------------------------------|-------|
| (760 mm Hg)             |             | (@ 77 deg F)                     |       |
| VAPOR PRESSURE          | 33          | % VOLATILE by WEIGHT             | 100   |
| (mm Hg AT 20 Deg. C.)   |             |                                  |       |
| VAPOR DENSITY (AIR = 1) | 2.0         | EVAPORATION RATE(BUAC =          | 2.3   |
|                         |             | 1)                               |       |
| SOLUBILITY IN WATER     | Complete    | ρН                               | NA    |
| APPEARANCE AND ODOR     | Clear, colo | rless liquid, non-residual odor. |       |

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air) LEL:2.0 UEL:12.0 FLASH POINT Deg. F. T.C.C. 54

EXTINGUISHING MEDIA Carbon dioxide or dry chemical.

SPECIAL FIRE FIGHTING Use NIOSH approved self-contained breathing apparatus PROCEDURES in enclosed area.

UNUSUAL FIRE AND Vapors are heavier than air and may travel along EXPLOSION HAZARD ground. Never use welding torch on or near metal

containers (even empty).

### SECTION V(a) - HEALTH HAZARD DATA

(Symptoms/Effects of Overexposure)

Can cause nasal irritation, dizziness, nausea, headache. INHALATION:

Can cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

SKIN: Prolonged or repeated contact can cause defatting and

dermatitis.

EYES: Can cause severe irritation, tearing, blurred vision.

Will injure eye tissue if not removed promptly.

LISTED

INGESTION:

CARCINOGENS: None.

### SECTION V(b) - HEALTH HAZARD DATA

(Emergency & First Aid Procedures)

INHALATION If affected, remove individual to fresh air. If breathing is

difficult, administer oxygen. Get medical attention.

INGESTION Call physician or Poison Control Center immediately. DO NOT

induce vomiting. Never give anything by mouth to an unconscious

SKIN CONTACT Wash exposed area with soap and water. Remove contaminated

clothina.

EYE CONTACT Flush eyes with large amount of water lifting upper and lower

lids occasionally. Get prompt medical attention.

#### SECTION VI - REACTIVITY DATA

STABILITY

CONDITIONS

Heat, sparks and open flames.

STABLE: X UNSTABLE:

TO AVOID

*INCOMPATIBILITY* 

Strong oxidizing agents.

(Materials to Avoid)

**HAZARDOUS** 

Carbon dioxide and carbon monoxide.

**DECOMPOSITION** 

**PRODUCTS** 

HAZARDOUS POLYMERIZATION

CONDITIONS TO NA

WILL OCCUR: WILL NOT OCCUR:X

**AVOID** 

### SECTION VII - SPILL or LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to hood. Ventilate area.

LARGE SPILL: See section X.

WASTE DISPOSAL Destroy by approved incineration or deposit in approved landfill.

Must be in accordance with Federal, State, and Local Laws and Regulation

#### SECTION VIII - SPECIAL PROTECTION

RESPIRATORY If threshold limit value is exceeded, use NIOSH approved

respirator for organic vapors.

EYEWEAR Chemical splash goggles in compliance with OSHA regulations are

advised. Provide eye bath near work site. Always protect eyes.

CLOTHING/GLOVES Wear resistant gloves such as rubber, neoprene or plastic.

VENTILATION Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure below TLVs.

#### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Observe precautions for a flammable liquid. Keep container closed when not in use. Store away from ignition sources in cool dry area. Use adequate ventilation. Read all container labeling. Use eye protection.

#### OTHER PRECAUTIONS:

CONTAINERS: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

#### SECTION X - ADDITIONAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: (continued)

LARGE SPILL:

Ventilate area. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill. Dike area of spill to prevent spreading. Pump liquid to salvage tank. Remaining liquid may be taken up clay or other absorbent material and shoveled into containers.

Toxic Substance Control Act (TSCA) Status:
All ingredients of this product are listed on the TSCA inventory.

SARA TITLE III (Section 313):
Components present in this product at a level which could require reporting under the statute are:

None

CALIFORNIA SCAQMD RULE 443.1 VOCS: Contains 782 grams/liter of Isopropyl Alcohol.

#### CERCLA:

If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA TITLE III (Sections 311/312):
This product is classified into the following hazard categories;
Immediate health. Delayed health. Fire.

# EMERGENCY TELEPHONE NUMBER CHEMTREC 1-800-424-9300 DAY or NIGHT

The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information of the use of any materials designated.



MUNICIPAL ONLEH DOMO SHEET

## alphametals.

600 Route 440 Jersey City, New Jersey 07304 Telephone 201-434-6778



NUMBER 199

**REVISION 10/31/94** 

PAGE

1

PRODUCT NAME (NUMBER)

425 Thinner

CHEMICAL FAMILY D.O.T. HAZARD CLASS Alcohol. Flammable liquid. TMC# 1224267 RT# 113272 8-21-97. KW

### ECTION II HAZARDOUS INGREDIENTS

|           | INGREDIENTS | CAS<br>NUMBER | WEIGHT<br>PERCENT | OSHA<br>PEL                | ACGIH<br>TLV          |
|-----------|-------------|---------------|-------------------|----------------------------|-----------------------|
| lsopropyi | Alcohol     | 67-63-0       | 100               | 400 ppm<br>Stel 500 ppm St | 400 ppm<br>el 500 ppm |

This product is hazardous as defined in 29 CFR1910.1200. OSHA HAZARD-Eye irritant

# SECTION III PHYSICAL DATA

(PUBLISHED OR ESTIMATED VALUES) BOILING POINT Deg F. 180 (760 mm Hg) VAPOR PRESSURE

(mm Hg at 20 Deg. C.) VAPOR DENSITY (AIR=1)

SOLUBILITY IN WATER APPEARANCE AND ODOR Clear, colorless liquid, non-residual odor.

33

2.0 Complete SPECIFIC GRAVITY (H2O=1) (@ 77 deg F)

% VOLATILE BY WEIGHT **EVAPORATION RATE** (BUAC = 1)

100 2.3 NA

0.783

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air)

LEL: 2.0

**UEL: 12.0** 

FLASH POINT Deg F.

EXTINGUISHING MEDIA

T.C.C. 54

Carbon dioxide or dry chemical.

pН

MOR 001355

SPECIAL FIRE FIGHTING **PROCEDURES** 

Use NIOSH approved self-contained breathing apparatus in enclosed area.

UNUSUAL FIRE AND EXPLOSION

Vapors are heavier than air and may travel along ground. Never use welding torch on or near metal containers (even empty).

HAZARD

NL - NOT LISTED UN - UNKNOWN NA - NOT APPLICABLE NE - NOT ESTABLISHED

# **THREADLOCKER**

(SEE LOCTITE 242 OR 620)

# PC 101 THINNER

95 --- SECTION I --PRODUCT IDENTIFICATION

## MATERIAL SAFETY DATA SHEET



THE SHERWIN - WILLIAMS CO. 101 PROSPECT AVE. N.W. CLEVELAND, OH 44115 EMERGENCY TELEPHONE NO. (216) 566-2917 INFORMATION TELEPHONE NO. (216) 566-2902

DATE OF PREPARATION 1 - Dec - 95

©1995, The Sherwin-Williams Co.

## KEM TRANSPORT® Synthetic Enamel

ENL/2

| CAS No.     | ECTION II—— HAZARDOUS INGREDIENT (percent by weight) | ACGIH OSHA<br>TLV PEL<br><stel> <stel< th=""><th>Units</th><th>Vapor<br/>Pressure<br/>(mm Hg)</th><th>V6V252<br/>FAST-CAT<sup>®</sup><br/>Hardener</th><th>V6V253<br/>HS Enamel<br/>Hardener</th><th>R4K183<br/>Fast</th><th>R4K179<br/>SUPER-FLO®<br/>Medium</th><th>R7K6220<br/>Fast</th><th>R4K6183<br/>FLO-GLO*<br/>Fast</th><th>R4K6179<br/>SUPER-FLO<br/>Medium</th></stel<></stel> | Units      | Vapor<br>Pressure<br>(mm Hg) | V6V252<br>FAST-CAT <sup>®</sup><br>Hardener | V6V253<br>HS Enamel<br>Hardener | R4K183<br>Fast | R4K179<br>SUPER-FLO®<br>Medium | R7K6220<br>Fast | R4K6183<br>FLO-GLO*<br>Fast | R4K6179<br>SUPER-FLO<br>Medium |
|-------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------|---------------------------------------------|---------------------------------|----------------|--------------------------------|-----------------|-----------------------------|--------------------------------|
| 64742-89-8  | Lt. Allphatic Hydrocarbon Solvent.                   | 100 100                                                                                                                                                                                                                                                                                                                                                                                   | РРМ        | 53.0                         |                                             |                                 | 45             |                                | 48              | 31                          |                                |
| 64742-89-8  | V. M. & P. Naphtha.                                  | 300 300<br><400≥                                                                                                                                                                                                                                                                                                                                                                          | PPM        | 12.0                         |                                             |                                 |                | 27                             |                 | 7                           | 38                             |
| 64742-88-7  | Mineral Spirits.                                     | 100 100                                                                                                                                                                                                                                                                                                                                                                                   | PPM        | 2.0                          |                                             |                                 |                |                                |                 |                             | 7                              |
| 108-88-3 5  | Toluene.                                             | 50 100<br><150>                                                                                                                                                                                                                                                                                                                                                                           | PPM (Skin) | 22.0                         |                                             |                                 | 54             |                                | 19              | 15                          | 8                              |
| 100-41-4 5  | Ethylbenzene                                         | 100 100<br><125> <125>                                                                                                                                                                                                                                                                                                                                                                    | PPM        | 7.1                          | 9                                           | 2                               |                | 10                             |                 |                             |                                |
| 1330-20-7   | Xylene.                                              | 100 100<br><150> <150>                                                                                                                                                                                                                                                                                                                                                                    | PPM        | 5.9                          | 49                                          | 13                              |                | 54                             |                 | 3                           | 1                              |
| 64742-95-6  | Light Aromatic Hydrocarbons.                         | Not Established                                                                                                                                                                                                                                                                                                                                                                           |            | 3.8                          | 2                                           | 4                               |                | 2                              |                 | <u> </u>                    | 1                              |
| 108-67-8    | 1,3,5-Trimethylbenzene                               | 25 25                                                                                                                                                                                                                                                                                                                                                                                     | PPM        | 10.0                         | 2                                           | 5                               |                | 3                              |                 | <u> </u>                    | 1                              |
| 95-63-6     | 1,2,4-Trkmethylbenzene                               | 25 25                                                                                                                                                                                                                                                                                                                                                                                     | РРМ        | 2.0                          | 3                                           | 7                               |                | 4                              |                 |                             | 2                              |
| 87-56-1 9   | Methanol                                             | 200 200<br><250> <250>                                                                                                                                                                                                                                                                                                                                                                    | PPM (Skin) | 92.0                         |                                             |                                 |                |                                | 3               | 3                           | 3                              |
| 111-76-2 \$ | 2-Butoxyethanol                                      | <b>25</b> 25                                                                                                                                                                                                                                                                                                                                                                              | PPM (Skin) | 0.6                          |                                             |                                 |                |                                |                 |                             | 6                              |
| 67-64-1     | Acetone.                                             | 750 750<br><1000><1000>                                                                                                                                                                                                                                                                                                                                                                   | PPM        | 180.0                        |                                             |                                 |                |                                | 4               | 36                          | 31                             |
| 78-93-3 §   | Methyl Ethyl Ketone.                                 | 200 200<br><300> <300>                                                                                                                                                                                                                                                                                                                                                                    | PPM        | 70.0                         |                                             |                                 | <del></del>    |                                | 27              |                             |                                |
| 108-10-1 5  | Methyl Isobulyi Ketone.                              | 50 50<br><75≥ <75>                                                                                                                                                                                                                                                                                                                                                                        | РРМ        | 16.0                         |                                             |                                 | <b> </b>       |                                |                 | 3                           | 1                              |
| 123-86-4    | n-Butyl Acetate.                                     | 150 150<br><200> <200>                                                                                                                                                                                                                                                                                                                                                                    | PPM        | 10.0                         | 4                                           | 9                               |                |                                |                 |                             | <u> </u>                       |
| 108-65-6    | 1-Methoxy-2-Propanol Acetate                         | Not Established                                                                                                                                                                                                                                                                                                                                                                           |            | 1.8                          |                                             |                                 |                |                                |                 |                             | 2                              |
| Proprietary | Isophorone Oilsocyanate Polymer.                     | Not Established                                                                                                                                                                                                                                                                                                                                                                           |            |                              | 30                                          | 60                              |                |                                |                 |                             |                                |
| 4098-71-9   | Isophorone Dilsocyanate (Max.)                       | 0.005                                                                                                                                                                                                                                                                                                                                                                                     | PPM (Skin) |                              | 0.3                                         | 0.6                             |                |                                |                 |                             | <del> </del>                   |
|             | Weight per Gallon (lbs.)                             |                                                                                                                                                                                                                                                                                                                                                                                           |            |                              | 7.80                                        | 8.54                            | 6.59           | 6.89                           | 6.42            | 6,47                        | 6.56                           |
|             | VOC - Total Volatile Organic Compounds (lbs/ga       | 1.)                                                                                                                                                                                                                                                                                                                                                                                       |            |                              | 5.45                                        | 3.42                            | 6.59           | 6.89                           | 8.42            | 6.47                        | 6.58                           |
| <del></del> | VOC - Less Water and exempt Solvents (lbs/gal.       | )                                                                                                                                                                                                                                                                                                                                                                                         |            |                              | 5.45                                        | 3.42                            | 6.59           | 6,89                           | 6.42            | 6.47                        | 8.58                           |
| <del></del> | Photochemically Reactive                             | <del></del>                                                                                                                                                                                                                                                                                                                                                                               |            |                              | Yes                                         | Yes                             | Yes            | Yes                            | No              | No                          | No                             |
| <del></del> | Flash Point (°F)                                     | <del></del>                                                                                                                                                                                                                                                                                                                                                                               |            |                              | 80                                          | 80                              | 25             | 70                             | 11              | 4                           | 3                              |
| <del></del> | DOL Storage Category                                 |                                                                                                                                                                                                                                                                                                                                                                                           |            |                              | 1C                                          | 1C                              | 1B             | 18                             | 18              | 18                          | 18                             |
|             | HMIS (NFPA) Rating (health - flammability - react    | vity)                                                                                                                                                                                                                                                                                                                                                                                     |            |                              | 3,30                                        | 3°30                            | 230            | 330                            | 330             | 330                         | 330                            |
|             | PAINT-SAFE® Personal Protection                      | <del></del>                                                                                                                                                                                                                                                                                                                                                                               |            |                              |                                             | J3                              | J3             | J3                             | J3              | J3                          | J3                             |

ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.65 C

II-10

#### Section III - PHYSICAL DATA

PRODUCT WEIGHT - See TABLE SPECIFIC GRAVITY - 0.77-1.0 BOILING RANGE - 132-395 °F VOLATILE VOLUME - 48-100 %

EVAPORATION RATE - Slower than Ether VAPOR DENSITY - Meavier than Air MELTING POINT - N.A.

SOLUBILITY IN WATER - N.A.

#### Section IV - FIRE AND EXPLOSION HAZARD DATA See TABLE

FLANGUABILITY CLASSIFICATION FLASH POINT RED LABEL - Flammable, Flash below 100 °F LRC. 0.7 UEL 36.5

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency Conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, for nottles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

#### Section V — HEALTH HAZARD DATA

#### ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

#### **ACUTE Health Hazards**

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and respiratory system. May Cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Enamel Hardeners may cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure. EMERGENCY AND FIRST AID PROCEDURES

If INNALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.

Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use. Flush eyes with large amounts of water for 15 minutes. Get medical attention. If in EYES: If SWALLOWED: Get medical attention.

**CHRONIC Health Hazards** 

No ingredient in these products is an IARC, NTP, or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, cardio-vascular, and reproductive systems,

Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure to isocvanates in Enamel Hardeners.

Methyl Ethyl Ketone may increase the nervous system effects of other solvents. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

#### Section VI -- REACTIVITY DATA

STABILITY - Stable CONDITIONS TO AVOID

None known. INCOMPATIBILITY

Contamination of Hardeners with Water, Alcohols, Amines, and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers. HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Honoxide

HAZARDOUS POLYMERIZATION - Will Not Occur

#### Section VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

If Enamel Hardeners are spilled, all personnel in the area should be protected as in Section VIII. Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammoni. Cover loosely. Wash spill area with soap and water.

WASTE DISPOSAL METHOD

Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable RPA hazardous waste numbers. Waste from products containing Hethyl Ethyl Ketone may also require extractability testing.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

#### Section VIII - PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE

NO PERSON SHOULD USE THE ENAMEL HARDENERS, OR BE IN THE AREA WHERE THE HARDENERS ARE BEING USED. IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.

Use all products only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

These coatings may contain materials classified as nuisance particulates (listed "as Dust" in Section II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIN TLV 10 mg./m3 (total dust), OSHA PEL 15 mg./m3 (total dust), 5 mg./m3 (respirable fraction). VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

ENAMEL MARDEMERS -- Where overspray is present, a positive pressure air supplied respirator (TIC19C NIOSH/MSNA approved) should be worn. If unavailable, a properly fillted organic vapor/ particulate respirator approved by NIOSH/MSHA for protection against materials in Section II may be effective. Follow respirator manufacturer's directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.

ALL OTHER PRODUCTS -- If personal exposure cannot be controlled below applicable limits by ventilation wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

When sanding or abrading the dried film, wear a particulate respirator approved by NIOSH/HSHA for protection against non-volatile materials in Section II. PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin when using ENAMEL HARDENERS.

#### Section IX — PRECAUTIONS

DOL STORAGE CATEGORY - See TABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame. Vapors may accumulate readily and may ignite spontaneously. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NPPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children. OTHER PRECAUTIONS

These products may be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

#### Section X — OTHER REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65

WARNING: These products contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### MOR 001358

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to these products may substantially alter the composition and hazards of the products. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

## TAC-PAC 382

# (SEE LOCTITE TAC-PAC)

rate: 02-09-99 09:46:29 AM

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| ł     |             |        |

TITLE : TRIBOL 930

SCOPE : Oven chain lubricant. See attached sheets.

USED ON: Rail conveyor IR 300/500/5000 LV

Ref. BOM 6-0568-003-01-1 for 500 ml 6-0568-003-02-1 for 4 liter 6-0568-003-03-1 for 5 gal.

MOR 001360

| 40 T. I P. III     | 2-4020-036-01-1                       | NO. FEUELE/SHEET NO.      | 1 of 10          |
|--------------------|---------------------------------------|---------------------------|------------------|
| HIS PART MALIED BY | JP. Gauthier                          | DATE/DATE June 1st, 199   | ? REV./REV.      |
| UPROUVE PARTAPPRO  | Thin South                            | DATE / DATE PACELY 5-1493 | REV. I REV.      |
|                    | , , , , , , , , , , , , , , , , , , , | <del></del>               | 610.021.0908.068 |

Title: Z:\2\4020\m0360101.gp4

#### **MATERIAL SAFETY DATA SHEET**

#### SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER:

PRODUCT ID NO .:

Tribol 930 High Temperature Chain Oil

See SECTION 9

CHEMICAL HAME: SYNONYMS:

CHEMICAL FORMULA: CHEMICAL FAMILY:

Synthetic esters plus performance additives. Not Applicable. Product is a médure. Not Applicable. No single formula. Synthetic estera plus performance additives. Lúbricant.

PRODUCT USE: PRODUCT CAS NO.:

Not Applicable. No single CAS number.

NFPA CLASSIFICATION:

FIRE: 1

REACTIVITY: 0

HEALTH: 1 SPECIAL HAZARDS: None

MANUFACTURER:

Tribol

4801 W. 147th St.

Hawthorne, CA 90250-6795 U.S.A.

Emergency Phone: (213): 679-0271

SUPPLIER (CANADA):

Tribal inc.

409 King Street West, Suite 404 Toronto, Ontario Canada M5V 1K1

Emergency Phone: (213) 679-0271

#### TRANSPORTATION EMERGENCY:

In U.S.A.: CHENTREC -(800)424-9300 In District of Columbia - (200)483-7616 In Canada-ICI Canada Inc.-1-800-561-3636

MOR 001361

MSDS 930 January 14, 1991

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Molub-Alley Total Quality Commitment

Tribal is a well of ICI Specially Charmonia, ICI American inc.

Title: Z:\2\4020\m0360102.gp4

#### **SECTION 2 - HAZARDOUS INGREDIENTS**

|                                          | %             | CAS NO     | LD <sub>80</sub>                | LC <sub>M</sub> | Exposure<br>Limits (TWA*)           |
|------------------------------------------|---------------|------------|---------------------------------|-----------------|-------------------------------------|
| Synthetic Trimelitric<br>anhydride ester | 92- <b>96</b> | 70225-05-7 | Not found                       | Not found       | None established<br>(OSHA or ACGIH) |
| Para-dioctyl<br>diphanylamine            | 13            | 68411-45-1 | 5g/kg<br>Acute dermal<br>(Rats) | Not found       | None established<br>(OSHA or ACGIH) |

<sup>\*</sup>TWA = 8-hour time-weighted average. Tribol's recommendation for the mixture:  $Smg/m^3$ .

Note: Exposure limits may vary between jurisdictions. Employers are advised to contact regulatory agencies for the limits in effect in their areas.

#### **SECTION 3 - PHYSICAL DATA**

PHYSICAL STATE:

Louid

APPEARANCE AND ODOR:

Clear yellowish liquid. Faint characteristic odor.

ODOR THRESHOLD (ppm):

Not determined. Not determined.

VAPOR PRESSURE (mm Hg): VAPOR DENBITY (AIr=1):

Not determined.

EVAPORATION RATE

(Water = 1):

Not determined.

POUR POINT (C'/F':

Not determined.

BOILING POINT ("C/F):

Not determined.

MELTING POINT ("CAF):

Not determined.

pH:

Not applicable.

SPECIFIC GRAVITY:

0.99 (typical)

PERCENT VOLATILE

(By weight):

Not determined.

SOLUBILITY IN WATER:

Negligible (less than 0.1%).

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MOR 001362

| SECTION 4 - | FIRE AND | EXPLOSION | HAZARD DATA |
|-------------|----------|-----------|-------------|

FLAMMABILITY:

This product is not classified as fiammable or combustible; however, it will burn if its temperature reaches or exceeds its

fash point.

EXTINGUISHING MEDIA:

Dry Chemical, water-log, chemical foam, or CO<sub>2</sub>. Direct

water-streem may cause frothing.

SPECIAL FIREFIGHTING PROCEDURE:

Use water to cool fire-exposed containers. Wear full emergency equipment with supplied-air respirator (8A), or

self-contained breathing apparatus (SCBA).

UNUSUAL FIRE & EXPLOSION HAZARDS:

None known.

FLASH POINT ("C/F) AND METHOD:

285/545, ASTM D 92 (C.O.C.)

FIRE POINT ("C"/F) AND METHOD:

Not determined.

FLAMMABLE LIMITS (% by volume):

Upper: Not determined. Lower: Not determined.

AUTOIGNITION TEMPERATURE ("C/"F):

Not determined.

**HAZARDOUS COMBUSTION PRODUCTS:** 

Smoke and toxic gases including exides of carbon and

ntrocen.

EXPLOSION SENSITIVITY:

Impact:

Static Discharge:

Sensitive X Not Sensitive X Not Sensitive

EMPTY/PARTIAL CONTAINER WARNING:

As with most synthetic lubricants, empty or partial containers may contain explosive vapors. Do not expose to direct flame

or high temperature.

#### **SECTION 5 - REACTIVITY DATA**

CHEMICAL STABILITY: Conditions to Avoid: X Stable \_\_\_ Unstable

Prolonged exposure to elevated temperature.

INCOMPATIBILITY:
Meterials to Aveid:

Strong cidolizers, acids, and alkalies.

HAZARDOUS POLYMERIZATION:

\_\_\_\_ Will Occur \_\_X\_ Will Not Occur

Conditions to Avoid:

None

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke and todo gases including oddes of carbon and

nitrogen.

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MOR 001363

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#### SECTION 6 - TOXICOLOGICAL PROPERTIES & HEALTH HAZARD DATA X Skin Contact Skin Absorption X Eye Contact X Inhalation ROUTES OF ENTRY: X Ingestion **SYMPTOMS AND EFFECTS OF ACUTE EXPOSURE:** Skin: May cause skin imitation. Eyes: Product, vapors, and mist may cause sys irritation and burning. Vapors may irritate the mucossi membranes of mouth, nose, and throat. inhelation: Intense and/or prolonged exposure to vapor concentrations exceeding the TLV/PEL may cause headache, nauses, and vomiting. Oil vapors may accumulate in the lungs, and may cause chemical pneumonitis. ingestion via minor contamination of fingers or food is not likely to cause ingestion: significant discomfort or adverse effect. However, aspiration (with vomitual) into the lungs may cause mild to severe pulmonary injury, and may be tatal. SYMPTOMS AND EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated contact tends to remove natural skin oil, and may Skin: cause irritation, rash, and possibly demartitis. Product, vapors, and mist may cause eye irritation and burning. Eyes: Chronic inhalation may produce the same symptoms and effects discussed Inhalation: under Inhalstion - ACUTE EXPOSURE, above. ingestion: in the normal course of industrial use, ingestion of large quantities of this product is unlikely. Nevertheless, ingestion may intrate the gastrointestinal tract and may cause nouses and vomiting. Aspiration (with vomitus) into the jungs may cause pulmonary injury and may be fatal. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Edeting chronic dermal, respiratory, and possibly gastrointestinal diseases. Not determined for this product. See Section 2 - HAZARDOUS EXPOSURE LIM!TS: INGREDIENTS, in this MSDS, for ingredient(s) limits. Possible intency of sidn, eyes, mucosal membranes, and respiratory tract. IRRITANCY: SENSITIZATION: None known. CARCINOGENICITY: NTP Listed: IARC Listed:

TERATOGENICITY AND EMBRYOTOXICITY: This product is not known to contain, at 0.1% or higher, any ingredients known to cause teratogenic or embryonic toxicity.

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MOR 001364

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REPRODUCTIVE TOXICITY:

This product is not known to contain, at 0.1% or higher, any ingradients

known to cause reproductive toxicity.

MUTAGENICITY:

This product is not known to contain, at 0.1% or higher, any ingredients

known to cause mutation in the living cell.

SYNERGISTIC PRODUCTS:

None known.

#### SECTION 7 - PREVENTIVE MEASURES AND PERSONAL PROTECTION

It is unlikely that serious overexposure to this product will occur during normal industrial use. Nevertheless, the user must exercise adequate precautions to protect against accidental spills, and to avoid undue exposure to sprays, mists, or vapors that may be inactivated type anerated, sepecially at elevated temperatures. The following protective measures are recommended whenever undue exposure is unavoidable.

**GLOVES:** 

Oli-impervious and solvent-resistant (e.g. neoprene) type.

RESPIRATOR:

OSHA/NIOSH-approved supplied-air respirator (SA), or self-contained

breathing apparatus (8CBA).

**EYE PROTECTION:** 

Chemical googles or, preferably, full face-shield. Do not wear contact lenses

in the work area.

FOOTWEAR:

Oli-Impervious (e.g. neoprene) cover and anti-stip sole construction.

CLOTHING:

Oil-impervious (e.g., neoprane) apron or, preferably, coveralis.

OTHER PROTECTION:

As deemed necessary.

PERSONAL HYRIENE: Wash hands before esting or smoking. Do not smoke in the work area. Promptly remove contaminated crothing. Immediately clean up any spills, to prevent accidental slipping.

ENGINEERING CONTROLS: General ventilation, normally adequate, should be augmented with local exhaust whenever the TLV/PEL is exceeded, or worker discomfort is reported or observed.

LEAK AND SPILL PROCEDURE: Wear adequate protection and eliminate all sources of ignition. Stop the leak, if it can be safely done. Ventilate the area and dike the spill to prevent antry into sewer or watercourses. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover the spill srua with oil-absorbent. Label all waste containers appropriately, including all applicable hazard symbols. If spill enters U.S. nevigable waters, the contiguous zone, or adjoining shorelines, nizity the Coast Guard National Response Center (Tel. No. 800-424-4802).

WASTE DISPOSAL: Dispose of waste in accordance with applicable Federal, State (or Province), and local laws and regulations. (The services of floensed hazardous waste-disposal facilities may be utilized.) It is the user's responsibility to comply with the U.S. Clean Air Act, Clean Water Act, and Resource Conservation and Recovery Act. Refer to Section 10 - REGULATORY INFORMATION, in this M803.

HANDLING PROCEDURES & EQUIPMENT: Exercise prudent precautions to evoid accidental spillage, food contamination, yepor or mist inhalisticn, eye or skin contact, and ignition of this product.

STORAGE REQUIREMENTS: Store in a clean, dry area below 49°C/120°F, away from all lightion sources and incompatible materials listed in SECTION 5 - REACTIVITY DATA, in this MSDS.

SPECIAL SHIPPING INFORMATION: See Sections 9 & 10, in this MSDS.

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#### SECTION 8 - FIRST AID AND EMERGENCY MEASURES

SKIN: Wipe off, then wash thoroughly with soap and water.

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid. Get prompt medical attention.

RHALATION: Immediately remove the individual to fresh air. If breathing is difficult, administer oxygen, if breathing stops, administer artificial respiration. Keep the individual warm and quiet, and get prompt medical attention.

INGESTION: If the individual is conscious, give 1-2 glasses of milk or water to dikite stomach content. Do not physically induce vomiting. Never give anything by mouth to an unconscious person. As with all acoldental chemical ingestions, use all available precautions to prevent approximation of vomitus into the lungs, which may be fatal. Position the patient's head so as to facilities expulsion of vomitus. Get prompt medical attention.

NOTE TO PHYSICIAN: Injubate the stomach. Appirate the pharynx as regularly as possible to remove gagged or vomited stomach content.

#### **SECTION 9 - TRANSPORTATION INFORMATION**

PRODUCT IDENTIFICATION:

Not applicable.

DOT PROPER SHIPPING NAME:

Not applicable.

**DOT HAZARD CLASS:** 

Not applicable.

DOT LABEL REQUIRED:

None.

IMO CLASS:

Not applicable.

CANADIAN (WHMIS) CLASSIFICATION:

Class: D

Division: 2

Subdivision: B

CANADIAN (TDG ACT) CLASSIFICATION:

Primery: Not applicable

Subsidiary: Not applicable

PACKAGING (PACKING) GROUP:

Not applicable.

FREIGHT CLASSIFICATION:

Lubricating Oil other than Petrcleum.

MSDS 930 January 14, 1991



#### SECTION 10 - REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA): To our best knowledge, all the ingredients in this product have been included, by their manufactures/suppliers, on the TSCA inventory.

#### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA)

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES: Title product contains the following ingredient(s) on this list: None.

SECTION \$13 - TOXIC CHEMICALS: This product contains the following ingredient(s) at or above the de minimus concentrations: None.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA):
Reporting of releases of this product is \_\_\_\_\_\_ruquired \_X\_ not required.

RESOURCE, CONSERVATION, AND RECOVERY ACT (RCRA): This product contains the following incredient(s) on the Hezardous Wastes List: None.

CALIFORNIA HAZARDOUS SUBSTANCES LIST: This product contains the following ingredients at or above the de minimis concentrations: Oil at 98% (max.).

CALIFORNIA PROPOSITIOI: 65: This product contains the following ingredient(s) listed in the Safe Drinking Water and Toxic Enforcement Act of 1986: None.

MICHIGAN CRITICAL MATERIALS: This product contains the following ingredient(s) at or above the de minimis concentrations: None.

CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS): This product contains the following substance(s) at or above the de minimis concentrations: None.

#### SECTION 11 - PREPARATION OF THE MSDS

PREPARED BY:

Nebli N. Saaty, Toxioclosiat

TELEPHONE NO .:

(213) 679-0271

DATE: SUPERSEDES: January 14, 1991

PERSEDES: October 6, 1990

The information presented herein has been compiled from sources considered to be dependable, and in, to the best knowledge of Tribol, occurate at the time of this writing. The data in this MSDS relates only to the product(s) designated herein. Tribol makes no warranty whatsoever, expressed or implied, regarding the socuracy of this data or the results to be obtained from the use thereo?. Tribol sesumes no responsibility for injury to buyer or to third persons, or for any damage to property. Buyer assumes all risks.

MOR 001367

MSOS 930 January 14, 1991

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Mohab-Alley
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Tribol is a unit of ICI Specially Chemicals. ICI Americas Inc.

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# CHAIN OIL

### Product Data Sheet

Tribol 930 is a high temperature synthetic oven chain tubricant and is particularly suitable for use in tunnel ovens used in the lithograph and metal decorating industries. The engineered volatility of this blend of synthetic base fluids allows for extended application cycles and the control of product consumption and cleanliness. Tribol 930 has been approved by USDA as an H2 lubricant suitable for use in federally inspected meat and poultry packaging plants.

This highly stable synthetic blend is additionally compounded to protect against a corrosive atmosphere and resist oxidation at high temperatures. Its natural lubricating ability is fortified with antiwear agents for thin film protection during boundary lubrication.

#### DESCRIPTION

Tribol 930 is manufactured from a blend of complex ester fluids selected for their favorable volatility characteristics, as well as their physical and chemical stability at high temperatures.

The viscosity of Tribol 930 can support fluid film lubrication on chain pins even with temperatures in excess of 350°F/177°C. Tribol 930 contains antiwear additives for additional protection in boundary lubrication from surging toads and very high temperatures.

Tribol 930 contains inhibitors against corrosion and oxidation, further extending the life of the chain and the lubricant in service.

#### **APPLICATIONS**

Tribol 930 is recommended for use at temperatures above 350°F/177°C.

Tribol 930 is designed for the lubrication of roller chains, slides, cams, and general lubrication where a high temperature synthetic lubricant is needed and the viscosity of Tribol 930 meets the operating viscosity-temperature requirements.

Tribol 930 especially meets the needs of litho/ coater oven chains in the metal decorating and coating industry, and various other oven conveyors used in baking, drying, and curing. Application may be achieved by drip, spray, splash, pump, or automatic dispensing equipment that can handle an oil of SAE 40 viscosity classification.

#### ADVANTAGES

Application amount and frequency can be minimized due to the lubricant's volatility characteristics.

Soilage due to drip or "blow-off" is minimized by reduced application.

Chain wear is controlled by excellent fluid film and antiwear properties.

Built-in cleansing action virtually eliminates shuldowns for periodic cleaning of equipment and tends to dissolve and facilitate removal of gums, varnish, and carbonaceous residues from previous lubricants.

Fire and explosion possibilities are greatly reduced as Tribol 930 has extremely low carbon forming tendency, and an autoignition temperature far exceeding petroleum products.

Seal leakage is minimized when Tribol 930 is used in conjunction with Buna A. Viton, silicone rubber, and EPOM elastomer sealing materials.

Please see Reverse Side for Notes and Typical Properties.

MOR 001368

Tribol
A member of the ICI Group
World Headquarters
21031 Veniura Boulevard, Woodland Hills, California 91364-2297
Teliphone - 618, 868-0808 | Talex 4720069 | Fax. (818) 864-1865
\* Tribol: A unit of ICI Specially Chemicals, ICI Americas Inc.

PDS 1051-7 4/89
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Molub-Alloy
Tribol

Title: Z:\2\4020\m0360109.gp4

#### AUTANIAGES (CONTINUES)

Cost reduction is accomplished by extended lubrication cycles, reduced soilage, decreased downtime for repairs and maintenance, and longer parts life.

#### NOTES

Tribol 930 High Temp Chain Oil is compatible with petroleum base lubricants. However, lubricating devices should be cleaned before beginning ser-

vice with Tribol 930 so as not to introduce impurities from the former lubricant.

Tribol 930 should not be used around parts containing polycarbonates as it can have a softening effect. Under no circumstances should it be used where neoprene seals are present.

For specific terms, conditions, warranty, and availability, refer to Tribol Price List in effect at time of purchase.

| TYPICAL PROPERTIES .                                    | Tribol 930<br>High Temp Chain Oil |
|---------------------------------------------------------|-----------------------------------|
| SAE Viscosity Classification                            | 40                                |
| Specific Gravity, ASTM Q1298 @ 15.6°C/60°F              | 0.9650                            |
| Viscosity, D445, D2161;                                 |                                   |
| @ 20°C, cSt                                             | 804                               |
| @ 40°C, cS1                                             | 190                               |
| @ 100°C. cSt                                            | 15                                |
| @ 100°F, cSt/SUS                                        | 218/1010                          |
| @ 210°F, cSt/SUS                                        | 15.5/80                           |
| @ 350°F, cSt/SUS                                        | 3.5/38.2                          |
| Flash Point, ASTM D92, °C/°F                            | 293/560                           |
| Fire Point, ASTM D92, COC, *C/*F                        | 321/610                           |
| Pour Point, ASTM D97, °C/°F                             | -29/-20                           |
| Rust Test, ASTM 0665                                    |                                   |
| Procedure A (Distilled Water)                           | Pass                              |
| Conradson Carbon Residue, ASTM 1189, wt %               | 0.06                              |
| Four Ball Wear Test (40 kg, 75°C/167°F, 1800 rpm, 1 hr) |                                   |
| Scar Diameter, mm                                       | 0.75 .                            |
| Evaporation Loss @ 218°C/425°F, wt %                    |                                   |
| After 8 hours                                           | 17.1                              |
| After 24 hours                                          | 30.8                              |
| After 36 hours                                          | 62.0                              |
| USDA/MID Code                                           | H2                                |

Subject to usual manufacturing tolerances.

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MOR 001369

## TURMO® LUBRICATION, INC.

760 36TH STREET, S.E. • GRAND RAPIDS, MI 49548 • USA

PHONE 616-247-0129 • 877-887-6658 (US+CAN)

FAX 616-247-0801 • EMAIL TURMOLUBE@AOL.COM

Safety data sheet according to directive 91/155 EEC

Released: 02/1995 Last update: 06/25/99 Name: Turmofluid 40 B

Page 1of 1 Printed: 12.03.01 11:18

1. Commercial product name and company identification:

Trade name:

Turmofluid 40 B

Company:

LUBRICANT CONSULT GMBH

Gutenbergstrasse 13

D-63477 Maintal 2 (Germany)

Additional information:

Europe

Phone (+49) 06109 76 500

Fax (+49) 06109 76 50 51

North America

Phone 616-247-0129

Fax 616-247-0801

2. Composition / Information on ingredients:

Combination of synthetic hydrocarbons, synthetic esters and additives.

CAS Numbers: 9003-27-4, 90218-76-1

3 Hazards identification:

When properly handle this product is not dangerous to human health. Harmful effects are expected only in case of misuse, especially in case of thermal decomposition.

4. First aid measures:

Skin contact: Wash with water and soap. Remove contaminated clothing.

Eye contact: Flush with plenty of water for at least 15 minutes. See a physician\* if the

eye imitation remains.

See a physician\* if necessary. Do not induce vomiting. Ingestion:

Inhalation: After inhaling of decomposition vapours: Remove the patient to fresh air.

\*Show the physician this safety data sheet.

5. Fire fighting measures:

Suitable extinguishing media: dry chemicals, powder, foams, carbon dioxide. In the case of fire, try to take the containers out of the danger zone. Otherwise keep them cool by spraying with water. Use a respirator to protect from vapours.

6. Accidental release measures:

Absorb small amounts with inert material. Collect the released product and the used absorbent materials in suitable containers for disposal (s. sect. 13). Hold back large amounts of the liquid by embankment (mound of soil, sand or other inert material). Use pumps or call the fire department, if necessary. Avoid uncontrolled discharge in sewage systems, surface and underground water. Do not smoke when handling released product. Avoid the contact with fire and sparks. Take measures against electrical charge.

7. Handling and store measures:

Store in cool and dry areas. Ventilation in the store and in working areas is commendable. Do not eat, drink and smoke in working areas.

8. Exposure control / Personal protection:

Hand protection:

Not necessary in normal use. When often handling the product

wear rubber gloves.

Respiratory protection:

Not necessary in normal use. Avoid breathing the aerosol or

other vacours.

Eye protection:

Not necessary in normal use. Wear safety classes, if

necessary.

9. Physical and chemical properties:

Physical state:

Souid

Rec 3/23/01

Colour: yellow - brownish Odour:

Pour point: Boiling point:

Density:

Viscosity:

typical

> +200°C (+392°F)

0.915 g/cm<sup>3</sup> 270 mm<sup>2</sup>/s

@ +20°C (+68°F)

**DIN 51757** @ +40°C (+104°F) DIN 51562

Solubility in water: insoluble

pH-value:

Flash point: Ignition temperature: > +260°C (+500°F) +290°C (+554°F)

Explosion limits:

not determined

10. Stability and reactivity:

Thermal decomposition: > +250°C (+482°F)

Hazardous decomposition products: No decomposition under normal storage and handling conditions. In the case of misuse at temperatures above the decomposition temperature harmful vapours may arise from the product. Materials to avoid contact: strong oxidising agents (compressed or liquid oxygen), strong acids and alkalis.

11. Toxicological Information:

Experimental toxicological data: oral: LD<sub>50</sub> > 2000 mg/kg (rat)

epidermal: weak eye irritation

Turmofluid 40 B when properly handled is not dangerous for human health and has no known effects of chronic or carcinogenesis (based on data of components).

12. Ecotoxicological information:

Use the product according to the good working practices avoiding polluting the environment. Avoid the contamination of soil and water. WGK 1 (self classification)

13. Disposal considerations:

Destroy the waste product by incineration according to local laws and regulations. Turmofluid 40 B contains no halogens and no toxic metals.

Waste code number for filled containers: 598 01

14. Transport information:

The product is not dangerous for transportation

Road transportation: Rail transportation: Sea transportation: Air transportation:

(RID) IMDG/IMO ICAO / IATA

(ADR)

not classified not classified not classified not classified

U.N.-number: Packaging group:

not assigned not assigned

15. Regulatory information:

No regulation and classification according to EEC directives necessary, no labelling with hazard symbols required. Aquatic toxicity: 1 (= German water hazard classification)

16. Further Information:

The information given in this safety data sheet is for safety purpose only. It is given in good faith and based on the best knowledge and experience of the company at the date of issuing. The company is not responsible for damages caused by the use of the product in applications for which it was not intended or for conditions of use outside its control. Previous versions of this material safety data sheet are no longer valid.

## TURMO® LUBRICATION, INC.

760 36TH STREET, S.E. • GRAND RAPIDS, MI 49548 • USA

PHONE 616-247-0129 • 877-887-6658 (US+CAN)

FAX 616-247-0801 • EMAIL TURMOLUBE@AOL.COM



#### 3/12/01

### **TURMOFLUID 40 B**

### High Temperature Chain Oil

TURMOFLUID 40 B is a highly stable and extremely adherent chain oil for high as well low temperatures. Due to its low surface tension TURMOFLUID 40 B penetrates all parts of the chain providing optimum wear protection and reducing chain stretching. It forms an extremely adherent, transparent and odorless lubricating film even at high speeds and with all types of chains. TURMOFLUID 40 B is especially designed for the chains of the wood processing industry. TURMOFLUID 40 B may be applied manually and by drip-feed lubricators as well as by central lubrication systems.

| QUALITY FEATURES                                                                                                                                                                                                                                                                                                                           | <b>Specifications</b>                                         | TURMOFLUID 40 B           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------|
| <ul> <li>Temperature range<br/>up to +250°C(+482°F)</li> </ul>                                                                                                                                                                                                                                                                             | Color, appearance                                             | yellow, transparent       |
| <ul> <li>Silicone free</li> <li>Excellent adhesion</li> <li>Reduced lubricant consumption</li> </ul>                                                                                                                                                                                                                                       | Density [g/cm³]<br>DIN 51757<br>@ +20°C (+68°F)               | 0.915                     |
| <ul> <li>Optimum wear protection</li> <li>Extremely low evaporation</li> <li>Low in formation of residues and smoke at high temperatures</li> <li>Fully mixable with mineral oil</li> <li>Excellent corrosion protection</li> <li>Aging resistance</li> <li>Resistant to hot water</li> <li>Good viscosity/temperature behavior</li> </ul> | Kinematic Viscosity [mm <sup>2</sup> /s] DIN 51562            |                           |
|                                                                                                                                                                                                                                                                                                                                            | @ +40°C (+104°F)<br>@ +100°C (+212°F)                         | 270<br>32                 |
|                                                                                                                                                                                                                                                                                                                                            | Viscosity index (ViE)<br>ISO 2909                             | 160                       |
|                                                                                                                                                                                                                                                                                                                                            | Flash point [°C (°F)]<br>DIN 51758                            | +280 (+536)               |
| PACKAGING SIZES  5-gallon-pail                                                                                                                                                                                                                                                                                                             | Pour point [°C (°F)]<br>DIN 51597                             | -35 (-31)                 |
| 55-gallon-drum (200 liter)                                                                                                                                                                                                                                                                                                                 | Service Temperature range [°C (°F)]                           | -40 to +250 (-40 to +482) |
|                                                                                                                                                                                                                                                                                                                                            | Evaporation loss [weight-%]<br>DIN 51581<br>@ +250°C (+482°F) | 2                         |
|                                                                                                                                                                                                                                                                                                                                            | SHELL Four-Ball-Test [N]                                      | 2,800/3,200               |

## Tmc# 1137125

Rec. 10/11/05 50

PAGE:

1 OF 5

MATERIAL SAFETY DATA SHEET

DATE PRINTED..... 09/28/00

MANUFACTURER'S NAME:

NAZDAR CHICAGO 1087 N. NORTH BRANCH ST.

DATE OF LAST CHANGE: 04/05/00

CHICAGO IL 60622 4292 USA **EMERGENCY TELEPHONE #:** (800)424-9300 (U.S. and Canada) **EMERGENCY TELEPHONE #:** (703)527-3887

(Outside U.S. and Canada, collect calls are accepted)

INFORMATION TELEPHONE #: (800)736-7636

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE .: RE180

TRADE NAME...: SCREEN INK THINNER

PRODUCT CLASS: THINNER

INK SERIES...:

- HMIS CODES -HEALTH.

> FLAMMABILITY - 2 REACTIVITY - 0 PPE

- X

SECTION 2 -- COMPOSITION, INFORMATION ON INGREDIENTS

| CHENICAL NAME;<br>COMMON NAME;<br>CAS NUMBER                              | PERCENT<br>BY<br>WEIGHT | ACGIH          | XPOSURE LIMITS<br>OSHA<br>PEL | VAPOR<br>PRESSURE<br>IN mmHg | NOTES |
|---------------------------------------------------------------------------|-------------------------|----------------|-------------------------------|------------------------------|-------|
| * 2-BUTOXYETHANOL:<br>ETHYLENE GLYCOL MONOBUTYL ETHER:<br>CAS #: 111-76-2 | > 95                    | 20 ppm<br>Skin | 25 ppm<br>Skin                | 0.6 @ 200                    | (1)   |

\* SUBJECT TO REPORTING REQUIREMENT OF SECTION 313 OF TITLE III OF SARA (40 CFR PART 372).

1) This chemical is included on the list of Hazardous Air Pollutants (HAPs) from Title III of the Clean Air Act Amendments of 1990 (Glycol Ethers Category).

The recommended permissible exposure limits (PEL) indicated above reflect the levels adopted by OSHA in 1989. Although, some of the 1989 levels have since been vacated, the Nazdar Company recommends that the lower exposure levels be observed as reasonable worker protection.

SECTION 3 -- HAZARDS IDENTIFICATION

#### GENERAL HEALTH EFFECTS

THE FOLLOWING INFORMATION HAS BEEN DEVELOPED BASED UPON USING THE PRODUCT AS INTENDED BY THE MANUFACTURER. The potential health effects of this product are based on the hazards of its components. The use of this product in combination with other products may produce synergistic (additive) health effects. Cautionary labeling and material safety data sheets of all materials used with this product should be reviewed before use.

#### **EYES**

Eye contact with liquid, vapors or mists may cause moderate to severe irritation, including burning, tearing, redness or swelling.

Skin contact may cause irritation. Symptoms may include dryness, chapping and redness. Penetrates the skin readily. Toxic and may be harmful if absorbed through the skin.

Repeated and prolonged overexposure by inhalation may cause respiratory tract irritation. Symptoms may include central nervous system disorders such as headaches, dizziness, weakness and fatigue.

Ingestion may cause gastrointestinal tract irritation. Symptoms may include headaches, nausea and vomiting. Contains material that may be moderately toxic if ingested.

#### CHRONIC EFFECTS/TARGET ORGANS

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

#### ANIMAL STUDIES

2-Butoxyethanol has caused reproductive and blood disorders resulting in kidney, liver and lung damage in lab animals. For animal studies, reference TSCA Section 4 Test Rule Results or contact the manufacturer for further details.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Pregnant women and persons with pre-existing health disorders should consult their physician before using this product. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health

MACD 004070

| PRODUCT CODE: RE180                                                                                                 | NAZDAR CHICAGO                                                                                                                                                                                                                                                                                                                                                      | PAGE: 2 OF                                                                               |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| effects. See Section 3 *Hazards Ide                                                                                 | entification" for effects of certain hazardous ingredients.                                                                                                                                                                                                                                                                                                         |                                                                                          |
| ROUTES OF EXPOSURE<br>Primary exposure routes: Inhalation-                                                          | -Dermal (Contact/Absorption)-Ingestion                                                                                                                                                                                                                                                                                                                              |                                                                                          |
| SECTION 4                                                                                                           | FIRST AID MEASURES                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |
| EYES<br>After initial flushing, remove any o<br>eyes examined and tested by medical                                 | contact lenses and continue flushing for at least 15 minutes.                                                                                                                                                                                                                                                                                                       |                                                                                          |
| contaminated clothing and shoes. Co<br>minimize both the area and time of s<br>Skin should be monitored for reddeni | n skin with a mild soap and plenty of water for at least 15 min<br>bol water is initially suggested to prevent the pores of the sl<br>skin contact. Lukewarm water may then be used to ensure all co<br>ing or chemical burns. Mild soap is suggested to help prevent<br>ansing. Get medical attention if irritation persists or signing<br>and shoes before reuse. | kin from opening. This will<br>contaminants are removed.<br>abrading the skin or rubbing |
| INHALATION<br>Remove to fresh air. If not breathi<br>medical attention if breathing diffi                           | ing, give artificial respiration or give oxygen by trained pers<br>culty is experienced.                                                                                                                                                                                                                                                                            | sonnel. Seek immediate                                                                   |
| INGESTION  If swallowed, do NOT induce vomiting an unconscious person.                                              | g. Call a physician or poison control center immediately. New                                                                                                                                                                                                                                                                                                       | ver give anything by mouth to                                                            |
| OTHER COMMENTS<br>No Data Available                                                                                 |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |
|                                                                                                                     | FIRE FIGHTING MEASURES                                                                                                                                                                                                                                                                                                                                              |                                                                                          |
| FLASH POINT<br>150 Degrees Fahrenheit (TCC)                                                                         |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |
| OSHA FLAMMABILITY CLASSIFICATION (NFPA) Class IIIA Combustible Liquid                                               |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |
| FLAMMABLE LIMITS (LEL-LOWER EXPLOSIVE L<br>1.1% volume in air                                                       | IMIT)                                                                                                                                                                                                                                                                                                                                                               |                                                                                          |
| EXTINGUISHING MEDIA<br>Foam-CO2-Dry Chemical-Water Spray                                                            |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |
|                                                                                                                     | ent, sparks, and open flame. Keep containers tightly closed.<br>nition then flash back. Closed containers may explode when ex                                                                                                                                                                                                                                       |                                                                                          |
| FIRE FIGHTING EQUIPMENT                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |

Full protective equipment including self-contained breathing apparatus (SCBA) is recommended to protect firefighters.

SPECIAL FIRE FIGHTING PROCEDURES

Water may be ineffective but may be used to cool containers. Fumes released on burning may be toxic and dangerous.

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RELEASE MANAGEMENT MEASURES

Remove all sources of ignition (flames, hot surfaces and electrical, static or frictional sparks). Avoid contact or breathing vapors. Ventilate area. Contain release and remove with inert absorbent. Use non-sparking tools to place material in appropriate container for disposal. The National Response Center (800-424-8802) and local authorities should be contacted for any reportable spill/release.

SECTION 7 -- HANDLING AND STORAGE

HANDLING AND STORAGE METHODS

Use in a well ventilated area. Follow all MSDS/label precautions even after container is emptied; container may retain product residues. Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use. Smoke in designated areas only. Avoid prolonged or repeated overexposure to this product. Keep out of reach of children. Follow label directions carefully. Do not take internally. Harmful or fatal if swallowed.

5

PAGE: 3 OF 5

#### RESPIRATORY PROTECTION

If concentrations of hazardous ingredients exceed exposure limits listed in Section 2 an appropriate NIOSH (National Institute for Occupational Safety and Health) approved respirator with an organic vapor cartridge should be used. If material is handled under mist, spray or dust forming conditions, a P100 (99.97% efficiency) filter should be used in addition to the organic vapor cartridge. If no exposure limits are listed in Section 2, follow general safety guidelines in 29 CFR 1910.134 Respiratory Protection or other applicable respiratory standard.

#### SKIN PROTECTION

Use neoprene, nitrile or other gloves resistant to chemicals listed in Section 2. Contact a reputable safety supply company for appropriate gloves. Solvent resistant aprons are recommended. Prevent prolonged skin contact with contaminated clothing.

#### EYE PROTECTION

Use ANSI (American National Standards Institute) approved safety glasses, faceshield or splash proof goggles to prevent eye contact. Contact a reputable safety supply company for appropriate eye protection. The availability of an eye wash is highly recommended.

#### EXPOSURE GUIDELINES

See Section 2 "Composition, Information on Ingredients" for occupational exposure limits.

#### HYGIENIC PRACTICES

Wash with soap and water before eating, smoking or using toilet facilities. Separately wash or discard clothing and footwear before reuse. NEVER try to remove ink from the skin by using solvent or thinner. Such action is likely to increase the possibility of undesirable effects. Remove contaminated clothing to prevent prolonged skin contact.

#### ENGINEERING CONTROLS

Use applicable engineering controls, work practices and personal protective equipment to ensure all concentrations are kept below the exposure limits listed in Section 2. Adequate controls should be implemented to ensure employee safety from fine mists which may be produced under some printing conditions.

#### OTHER PROTECTION

No Data Available

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Thin liquid

ODOR:

Characteristic

PHYSICAL STATE:

Liquid

pH Not

Not applicable

VAPOR PRESSURE

See Section 2 for individual ingredients.

VAPOR DENSITY

Heavier than air

BOILING POINT

Greater than 300 degrees Fahrenheit

FREEZING POINT

Not available

SOLUBILITY IN WATER

Not tested

**EVAPORATION RATE** 

Slower than ether

PERCENT VOLATILE BY VOLUME: 100.00 %

WEIGHT PER GALLON: 7.52 lbs/gal

VOC: 902.54 g/L

7.52 lb/gal

| PRODUCT CODE:                                  |                                         | NAZDAR CHICAGO                                                                                                                                                                                                                                                                               | PAGE:                    | 4 OF    |
|------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------|
| No                                             |                                         |                                                                                                                                                                                                                                                                                              | •••••                    |         |
| Percent vo                                     | olatile = Perc                          | cent VOC                                                                                                                                                                                                                                                                                     |                          |         |
|                                                |                                         | SECTION 10 STABILITY AND REACTIVITY                                                                                                                                                                                                                                                          |                          |         |
| CHEMICAL STABI                                 |                                         |                                                                                                                                                                                                                                                                                              |                          |         |
| CONDITIONS TO                                  |                                         | ignition sources, sparks and open flame.                                                                                                                                                                                                                                                     |                          |         |
| INCOMPATIBILIT<br>Strong aci                   |                                         | MATERIALS dizing/reducing agents and reactive chemicals.                                                                                                                                                                                                                                     |                          |         |
| HAZARDOUS DECO<br>May produc                   |                                         | DDUCTS<br>fumes when heated to decomposition e.g. carbon monoxide, carbon dioxide and other noxiou                                                                                                                                                                                           | s gases.                 |         |
| HAZARDOUS POLY<br>Not antici                   |                                         | normal printing and storage conditions.                                                                                                                                                                                                                                                      |                          |         |
|                                                |                                         | SECTION 11 TOXICOLOGICAL INFORMATION                                                                                                                                                                                                                                                         |                          |         |
| EXPERIMENTAL TO<br>Refer to So<br>has given to | ection 3 Haza                           | rds Identification for additional toxicological data. Experimental toxicity data on 2-b<br>results: Oral LD50 Rabbit; 320 mg/kg: Intraperitoneal LD50 Rat; 550 mg/kg.                                                                                                                        | -                        |         |
|                                                | • • • • • • • • • • • • • • • • • • • • | SECTION 12 ECOLOGICAL INFORMATION                                                                                                                                                                                                                                                            |                          |         |
| ECOTOXICITY  Because th                        | is product mag                          | y be a mixture of chemicals, some of which may be ecologically toxic, it is strongly sug<br>the environment, i.e. soil, water courses, lakes, landfills, sewers, etc.                                                                                                                        |                          |         |
| ENVIRONMENTAL I<br>No Data Ava                 | ailable                                 |                                                                                                                                                                                                                                                                                              |                          |         |
|                                                |                                         | SECTION 13 DISPOSAL CONSIDERATIONS                                                                                                                                                                                                                                                           |                          |         |
| retain haza                                    | in accordance                           | e with applicable local, county, state, provincial and federal regulations. Emptied cont<br>ties. Empty containers should be disposed of in an environmentally safe manner in accord                                                                                                         | tainers ma<br>dance with | iy<br>1 |
|                                                |                                         | SECTION 14 TRANSPORT INFORMATION                                                                                                                                                                                                                                                             |                          |         |
| classified<br>Internation                      | ted. The proc<br>as a hazardou          | duct(s) described by this Material Safety Data Sheet do not meet the definition of nor ar<br>us material/dangerous good as defined by the United States Department of Transportation (<br>ation Organization (ICAO), the International Maritime Organization (IMO) or the Canadian<br>(TDG). | (DOT), the<br>Transport  | ation   |
|                                                |                                         | SECTION 15 REGULATORY INFORMATION                                                                                                                                                                                                                                                            |                          |         |
| SARA TITLE III<br>See Section                  |                                         |                                                                                                                                                                                                                                                                                              |                          |         |

#### TOXIC SUBSTANCES CONTROL ACT STATUS

All ingredients in Section 2 are listed on the U.S. Environmental Protection Agency's Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substance List.

٠.

OTHER REGULATORY INFORMATION

OCCUPATIONAL SAFETY and HEALTH ADMINISTRATION (OSHA) - MSDS is compliant with Occupational Safety and Health Administration Hazard Communication Standard - 29 CFR 1910.1200. AMERICAN NATIONAL STANDARDS INSTITUTE - This MSDS follows the ANSI Z400.1-1993 format. WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM (WHMIS) - This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### WHMIS CLASSIFICATION (CANADA):

No Data Available

SECTION 16 -- OTHER INFORMATION

#### DISCLOSURE

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind express or implied is made with respect to the information contained herein. The data in this MSDS relates only to the specific material designated herein and does not apply to use in combination with any other material or process.

#### **DEFINITIONS**

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CEILING: (TLV-Ceiling and PEL Ceiling Limit) The ceiling exposure limit or concentration not to be exceeded for even brief times.

DOT: Department of Transportation

HMIS: The Hazardous Materials Identification System (HMIS) developed by the National Paint and Coatings Association (NPCA) to provide information on the acute health hazards, reactivity and flammability of products encountered in the workplace at room temperatures.

HMIS codes assigned for this product are only suggested ratings based on anticipated normal screen printing applications. The employer has the ultimate responsibility for assigning these ratings and should fully evaluate the MSDS, work practices and environmental conditions prior to assigning the appropriate ratings.

HMIS Personal Protection Index of "X-Ask your supervisor" is given on this MSDS due to varying work conditions which may dictate different levels of protection. Please review this MSDS before determining appropriate protective equipment and beginning work.

IARC: International Agency for Research on Cancer

NFPA: National Fire Protection Association

NTP: National Toxicology Program

STEL: Short-Term Exposure Limit: ACGIH terminology for the short-term exposure limit or maximum concentration for a continuous exposure period of 15 minutes.

TLV: Threshold Limit Value. A term ACGIH uses to express the airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

TWA: Time-Weighted Average

VOC: Volatile Organic Compound

#### MATERIAL SAFETY DATA SHEET

POR: SUE DELADI HACH ORDER#: 761351

HSDS DATE: 11/06/96 CHANGE NO.: 12068 For Assistance, Contact: Regulatory Affeirs Dept. PO Box 907 Ames, IA 50010 (808) 227-4224

HACH COMPANY PO BOX 907 AMES, IA 50010

Emergancy Telephone 8
Rocky Mountain Poisen Ctr.
(385) 623-5716

#### I. PRODUCT IDENTIFICATION

PRODUCT NAME: Sodium Hydroxide 8.88 ± 8.84N

CAS NO.: NA CHEMICAL NAME: Not applicable FORMULA: Not applicable CHEMICAL FAMILY: Not applicable

MSDS NUMBER: M00646

#### II. INGREDIENTS

Sodium Hydroxide

HAZARD: Corrosive, very toxic

Demineralized Water

PCT: to 188 CAS NO.: 7732-18-5 SARA: NOT LISTED
TLV: Not applicable PEL: Not applicable
HAZARD: None

#### III. PHYSICAL DATA

STATE: liquid APPEARANCE: Clear, colorless ODOR: None
SOLUBILITY IN: MATER: Miscible ACID: Miscible OTHER: Not determined
BOILING POINT: Tigg"C MELTING PT.: NA SPEC GRAVITY: 1.28 pH: 14.8
VAPOR PRESSURE: ND VAPOR DENSITY (bir\*1): ND EVAPORATION RATE: U.17
METAL CORROSIVITY — ALUMINUM: >20 In/yr STEEL: 0.00 in/yr
STABILITY: See Conditions to Avoid
STORAGE PRECAUTIONS: Store tightly closed in a cool, dry place.

#### IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT.: Not applicable METHOD: NA
FLAMMABILITY LIMITS - LOWER: NA UPPER: NA
SUSCEPTIBILITY TO SPONTANEOUS HEATING: None
SHOCK SENSITIVITY: None AUTOIGNITION PT.: NA
EXTINGUISHING MEDIA: Not applicable
FIRE/EXPLOSION HAZARDS: Contact with metals gives off hydrogen gas which is
flammable
HAZARDOUS DECOMP. PRODUCTS: None reported
OXIDIZER: No NFPA Codes: Health: 3 Flammablity: 0 Reactivity: 1
CONDITIONS TO AVOID: Extreme temperatures, evaporation; Contact with acids,
halogenated organic compounds, metals, nitro compounds

#### V. HEALTH HAZARD DATA

THIS PRODUCT MAY BE: corrosive to eyes, skin and respiratory tract.
ACUTE TOXICITY: Not determined
ROUTES OF EXPOSURE: Ingestien
TARGET ORGANS: Not determined
CHRONIC TOXICITY: Not determined
ROUTES OF EXPOSURE: Not determined
TARGET ORGANS: Not determined
CANCER INFORMATION: Not epplicable
ROUTES OF EXPOSURE: Not applicable
TARGET ORGANS: Not applicable
OVEREXPOSURE: Causes burns to all body tissues contacted.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing eye, skin, er

#### VI. PRECAUTIONARY MEASURES

Avaid contact with eyes, skin and clothing
Do not breathe mist or vapor.
Wash thoroughly after handling.
PROTECTIVE EQUIPMENT: adequate ventilation, lab grade goggles, disposable
latex gloves, lab coat

#### VII. FIRST AID

Call physician.

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes. Remove contaminated clathing. Call physician.
INGESTION: Do NOT induce vemiting. Give 1 - 2 glasses of water. Call a physician immediately. Never give snything by mouth to an unconscious

physician immediately. Hever give snything by mouth to an unconscious person.

INPLAIATION: Remove to fresh mir. Give artificial respiration if necessary.

#### VIII. SPILL AND DISPOSAL PROCEDURES

IN CASE OF SPILL OR RELEASE: Cover spill with citric acid or another solid acidic material. Scoop slurry to beaker. Add water and neutralize liquid to a pH between 6 and 9. Flush neutralized waste to the drain with excess water.

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

#### IX. TRANSPORTATION DATA

D.O.T. PROPER SHIPPING NAME: Sodium Hydroxide Solution
HAZARD CLASS: 8 1D: UN1824 GROUP: I1

I.C.A.O. PROPER SHIPPING NAME: Sadium Hydraxide Solution
HAZARD CLASS: 8 ID: UN1824 GROUP: II

I.M.O. PROPER SHIPPING NAME: Sodium Hydroxide, Solution HAZARD CLASS: 8 ID: UN1824 GROUP: II

#### X. REFERENCES

- TLV's Threshold Limit Values and Biological Exposure Indices for 1988-1989. American Conference of Governmental Industrial Hygienists, 1988.
- Air Contaminants, Federel Register, Vol. 54, No. 12, Thursday, January 19, 1989. pp. 2332-2983.
- 3) Technical judgment
- 4) In-house information
- 5) Fire Protection Guide to Hazardous Materials, 10th Ed., Quincy, MA; National Fire Protection Association, 1991.
- 6) Sax, N. Irving. Dangerous Properties of Industrial Materials, 6th Ed. New York: Van Nostrend Reinhold Co. 1984.

TMC 1225910

MOR 001377

THE INFORMATION CONTAINED MEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOMEVER, HO MARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEOROF.

(C) HACH CO. 1997

MSDS DATE: 2/16/94 CHANGE NO.: 13646 Far Assistance, Contact:
Regulatory Affairs Dept.
PO Box 907 Ames, IA 50010
(800) 227-4224

HACH COMPANY PO BOX 907 AMES, IA 50010 Emergency Talaphone & Rocky Mountain Poison Ctr. (303) 623-5716

#### I. PRODUCT IDENTIFICATION

PRODUCT NAME: Phenolphthalain Indicator Solution 5 g/1
CAS NO.: NA CHEMICAL NAME: Not applicable
FORMULA: Not applicable CHEMICAL FAMILY: Not applicable

#### TY THEREDIENTS

2-(2-Ethoxyethoxy)ethanol
PCT: >99 CAS NO.: 111-96-8 SARA: LISTED
TLV: Not established PEL: Not established
MAZARD: Slightly toxic; may cause irritation

Phenelphthelein

PCT: <1 CAS NO.: 77-89-8 SARA: NOT LISTED
TLV: Not established PEL: Not established
HAZARD: Mey cause irritation

#### III. PHYSICAL DATA

STATE: liquid APPEARANCE: Feint pink, clear ODOR: Hild SQLUBILITY IN: MATER: Miscible ACID: Not determined OTHER: Most organic solvents BOILING POINT: 196C MELTING PT.: NA SPEC GRAVITY: 0.986 pH: 4.5 VAPOR PRESSURE: 0.08 mm H9 VAPOR DENSITY (a)r=1): 4.65 EVAPORATION RATE: 0.05 METAL CORROSIVITY - ALUMINUM: ND STEEL: ND STABILITY: Stable STORAGE PRECAUTIONS: Store tightly closed in a cool, dry place.

#### IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT.: 99C; 210F METHOD: closed cup
FLANHABILITY LIMITS - LOWER: ND UPPER: ND
SUSCEPTIBILITY TO SPONTAMEOUS HEATING: None
SHOCK SENSITIVITY: None AUTOIGNITION PT.: Not available
EXTINGUISHING MEDIA: dry chemical, sicohol foam or carbon dioxide
FIRE/EXPLOSION HAZARDS: May emit toxic fumes in fire
HAZARDOUS DECOMP. PRODUCTS: May emit toxic fumes of carbon monoxide and
carbon dioxide in fire
OXIDIZER: No MFPA Codes: Health: | Flammability: | Reactivity: 0
COMDITIONS TO AVOID: Heat, flames, contact with oxidizers

#### V. HEALTH HAZARD DATA

THIS PRODUCT MAY BE: irritating to eyes, skin and respiratory tract.

ACUTE TOXICITY: Slightly toxic

ROUTES OF EXPOSURE: ingestion, skin absorption

TARGET ORGANS: central nervous system

CHRONIC TOXICITY: Not determined

ROUTES OF EXPOSURE: Not determined

TARGET ORGANS: Not determined

CANCER INFORMATION: Not applicable

ROUTES OF EXPOSURE: Not applicable

TARGET ORGANS: Not spplicable

OVEREXPOSURE: Causas moderate eye irritation, nauses, vomiting, headache, central narvous system depression

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None reported

#### VI. PRECAUTIONARY MEASURES

Avoid contact with eyes and skin.

Do not breathe mist or vapor.

Wash thoroughly after hendling.

PROTECTIVE EQUIPMENT: lab grade goggles, lab coat, rubber gloves, fume hood

#### VII. FIRST AID

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes. C. physician. Wash skin with soap and plenty of water.
INGESTION: Give large auantities of water. Call physician immediately.
INFALATION: Remove to fresh air.

#### VIII. SPILL AND DISPOSAL PROCEDURES

IN CASE OF SPILL OR RELEASE: Remove all sources of ignition. Absorb spill with non-reactive absorbent. Do not breathe fumes. Incinerate materia; in an EPA-approved facility.

DISPOSE OF IN ACCORDANCE MITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

#### IX. TRANSPORTATION DATA

D.O.T. PROPER SHIPPING NAME: Not Currently Regulated HAZARD CLASS: NA ID: NA GROUP: NA

I.C.A.O. PROPER SHIPPING NAME: Not Currently Regulated HAZARD CLASS: MA ID: NA GROUP: NA

I.M.O. PROPER SHIPPING NAME: Not Currently Regulated HAZARD CLASS: NA ID: NA GROUP: NA

#### X. REFERENCES

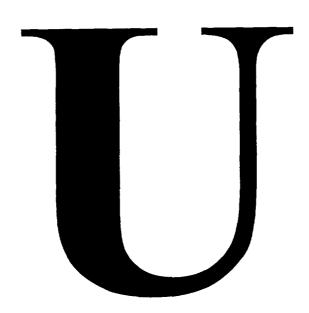
- 1) TLV's Threshold Limit Values and Biological Exposure Indices for 1988-1989. American Conference of Governmental Industrial Hygienists, 1988.
- 2) Air Contaminants, Federal Register, Vol. 54, No. 12, Thursday, January 19, 1969, pp. 2332-2963.
- 3) In-house information
- 4) Technical judgment

SARA: This product contains a chemical or chemicals subject to the reportir requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TMC 1225921

MOR 001378



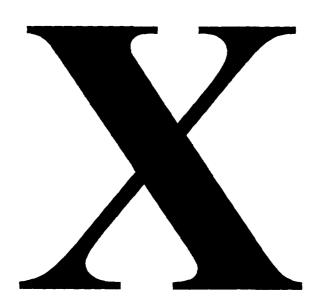


MOR 001379

## **UV ADHESIVE**

(SEE LOCTITE TAC-PAC 382)





# MATERIAL SAFETY DATA SHEET Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Date of Prep:

1/20/98

SECTION 1

SUNNYSIDE CORPORATION 225 CARPENTER AVENUE WHEELING, ILLINOIS 60090 EMERGENCY TELEPHONE

(847) 541-5700 (800) 424-9300 SUNNYSIDE CORPORATION

**CHEM TREC** 

Product Class: Trade Name: Petroleum Solvent

Manufacturer's Code: NPCA HMIS:

s Code:

Health: 2 Flammability: 3

822

**EOR INFORMATION: (847) 541-5700** 

NPCA: 704

Reactivity: Ó Health: 2 Flammability: 3 Reactivity: O

Product Appearance and Odor: Clear, water-white liquid; aromatic hydrocarbon odor.

SECTION 2 -- HAZARDOUS INGREDIENTS

**OCCUPATIONAL EXPOSURE LIMITS** 

INGREDIENT CAS # PERCENT TLV TLV PEL PEL VAPOR PRESSURE

(TWA) (STEL) (TWA) (STEL)

Xylenes 1330-20-7 100 PPM 150 PPM 100 PPM 150 PPM 7 MM Hg @ 20°C Ethyl Benzene 100-41-4 100 PPM 125 PPM 100 PPM 125 PPM 10 MM Hg @ 68°F

SECTION 3 - EMERGENCY AND FIRST AID PROCEDURES

Eye Contact: Move victim away from exposure and into fresh air. Flush eyes with plenty of water for at least 15 minutes while

holding eyelids open. Get medical attention.

Skin Contact: Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation

occurs, get medical attention. Do not reuse clothing until cleaned.

Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into

fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate

medical attention.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into

the lungs. Get immediate medical attention.

Note to Physicians: Exposure to high concentrations of this material (for example, use in enclosed spaces or in cases of deliberate abuse)

may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Other drugs with less arrhythmogenic potential should be considered.

If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

SECTION 4 -- PHYSICAL DATA

The following data represent approximate or typical values. They do not constitute product specifications.

Boiling Range: Evaporation Rate: 276-289° (F) Slower than ether

Vapor Density: % Volume:

Heavier than air

Weight Per Gallon:

7.25 Lbs.

n: 7.2

Solubility in Water:

Negligible; less than 0.08%

TRADE NAME: 822 - Xviene (Xviol)

### SECTION 5 -- FIRE AND EXPLOSION DATA

Flammability Classification:

Flash Point:

Autoignition Temperature: Lower Explosive Limit:

Flammable Liquid - Class IB 79° (F) (Tag. Closed Cup). 930°F (Approximate) 1.0% @ 68°F

Extinguishing Media:

Carbon Dioxide, foam, dry chemical, water spray. Do not use direct water stream; it will spread

Unusual Fire and Explosion Hazards:

Flammable. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive

concentrations.

Special Fire Fighting Procedures:

Use air-supplied rescue equipment for enclosed areas. Cool exposed containers with water.

### SECTION 6 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: EFFECTS OF OVEREXPOSURE 100 PPM (ACGIH - Time weighted average)

Liquid is minimally irritating to the eyes. High vapor concentrations may also be irritating.

Eye Contact: Skin Contact:

Liquid is mildly irritating to the skin. Prolonged or repeated liquid contact can result in defatting and drying

of the skin which may result in skin irritation and dermatitis.

Inhalation:

Vapors are irritating to the nose, throat and respiratory tract. High vapor concentrations may cause central

nervous system depression.

Ingestion:

Liquid is moderately toxic and may be harmful if swallowed; may produce central nervous system depression. Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided

as even small quantities may result in aspiration pneumonitis.

Carcinogenicity:

Xylene is not known to be mutagenic, carcinogenic or a skin sensitizer. However, the available experimental data are limited and insufficient to assess carcinogenic potential. Xylene is not listed as a carcinogen by NTP,

IARC or OSHA.

Target Organs:

A six week inhalation study with Xylene produced hearing loss in rats. Laboratory animals exposed by various routes to high doses of Xylene have exhibited effects in liver, kidneys, lungs, spleen, heart, blood and

adrenals.

Developmental:

Xylene produced limited evidence of developmental toxicity in laboratory animals. Inhalation and oral administration of Xylene resulted in decreased fetal weight, increased incidences of delayed ossification,

skeletal variations and resorptions.

Medical Conditions Aggravated by Exposure: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Exposure to high concentrations of this material may cause irregular heartbeats (arrhythmias). Persons with

pre-existing heart disorders may be more susceptible to this effect.

Chronic Effects:

This product contains Ethyl Benzene. A draft report on a study conducted by the National Toxicology program states that lifetime inhalation exposure of rats and mice to concentrations of Ethyl Benzene (750 ppm) resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentration of Ethyl Benzene (75 ppm or 250 ppm). The draft report does not address the relevance of these results to humans.

### SECTION 7 - REACTIVITY DATA

Stability:

Stable

Conditions to Avoid:

Heat, sparks and flame.

Incompatibility (Materials to Avoid):

Strong oxidizing agents like liquid chlorine or concentrated oxygen, concentrated nitric and sulfuric

acids, halogen and molten sulphur.

Hazardous Decomposition Products:

Thermal decomposition may yield carbon dioxide and carbon monoxide.

Hazardous Polymerization:

Will not occur.

# MATERIAL SAFETY DATA SHEET Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Date of Prep:

1/20/98

### SECTION 1

SUNNYSIDE CORPORATION 225 CARPENTER AVENUE WHEELING, ILLINOIS 60090 **EMERGENCY TELEPHONE** 

(847) 541-5700 (800) 424-9300 SUNNYSIDE CORPORATION

**CHEM TREC** 

**Product Class:** Trade Name:

Petroleum Solvent

XYLENE (XYLOL)

Manufacturer's Code:

NPCA HMIS:

822 Health: 2

Flammability: 3

EOR INFORMATION: (847) 541-5700

NPCA: 704

Reactivity: Ó Health: 2

Flammability: 3 Reactivity: 0

Product Appearance and Odor: Clear, water-white liquid; aromatic hydrocarbon odor.

### SECTION 2 -- HAZARDOUS INGREDIENTS

#### OCCUPATIONAL EXPOSURE LIMITS

| INGREDIENT    | CAS#      | PERCENT | ACGIH<br>TLV<br>(TWA) | ACGIH<br>TLV<br>(STEL) | OSHA<br>PEL<br>(TWA) | OSHA<br>PEL<br>(STEL) | VAPOR PRESSURE  |
|---------------|-----------|---------|-----------------------|------------------------|----------------------|-----------------------|-----------------|
| Xylenes       | 1330-20-7 |         | 100 PPM               | 150 PPM                | 100 PPM              | 150 PPM               | 7 MM Hg @ 20°C  |
| Ethyl Benzene | 100-41-4  |         | 100 PPM               | 125 PPM                | 100 PPM              | 125 PPM               | 10 MM Hg @ 68°F |

### SECTION 3 — EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:

Move victim away from exposure and into fresh air. Flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin Contact:

Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

Inhalation:

If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate

medical attention.

Ingestion:

Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get immediate medical attention.

Note to Physicians:

Exposure to high concentrations of this material (for example, use in enclosed spaces or in cases of deliberate abuse) may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

### SECTION 4 - PHYSICAL DATA

The following data represent approximate or typical values. They do not constitute product specifications.

**Boiling Range:** 

276-289° (F)

Evaporation Rate: Weight Per Gallon: Slower than ether

7.25 Lbs.

Solubility in Water:

Negligible; less than 0.08%

Vapor Density:

% Volatile By Volume:

Heavier than air

100%

### SECTION 11 -- ADDITIONAL INFORMATION

This product contains the following toxic chemical(s) which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

TOXIC CHEMICAL

CAS\_#

**APPROXIMATE** % BY WEIGHT

Xylenes (Mixed Isomers)

1330-20-7

75 - 90%

Ethyl Benzene

100-41-4

10 - 25%

SARA Title III Hazard Categories:

Immediate (Acute) Health, Delayed (Chronic) Health, Fire.

Common Names:

Xylol, Dimethyl Benzene

California Proposition 65:

This product contains trace amounts of Toluene, a chemical known to the State of California to cause birth defects or other reproductive harm, and trace amounts of Benzene, a chemical known to the State of California to

cause cancer.

TRANSPORTATION (U.S. D.O.T. land transportation in packages of 119 gallons or less)

U.S. D.O.T. Proper Shipping Name:

Flammable Liquid, N.O.S. (Contains Xylene, Ethyl Benzene)

U.S. D.O.T. Hazard Class & Packing Group:

3, 111

U.S. D.O.T. I.D. Number:

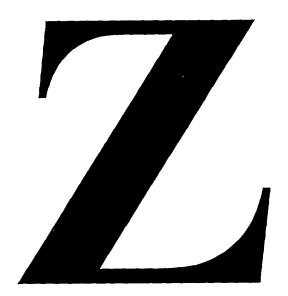
UN 1993

U.S. D.O.T. Hazardous Substance:

Xylenes (mixed) RQ 100 lbs. Ethyl Benzene RQ 1000 lbs.

Refer to 49 CFR for additional information. Exceptions or exemptions may exist for smaller quantities.





MOR 001386





ZEP MANUFACTURING COMPANY P.O. BOX 2015 ATLANTA, GEORGIA 30301 SOLD TO:

(330) RECELLULAR INC C/O MOREY CORPORATION DOWNERS GROVE IL 60515

## **MATERIAL SAFETY DATA SHEET**

AND SAFE HANDLING AND DISPOSAL INFORMATION

**ISSUE DATE: 12/16/91** Date printed: 12/04/99 **SUPERSEDES: 11/13/91** 

ZEP Z-GREEN Prod No: 1848

General Purpose Cleaner SECTION I -EMERGENCY CONTACTS

TELEPHONE: (404) 352-1680 MEDICAL EMERGENCY:

(770) 439-4200

(770) 432-2873 (770) 424-4789

(770) 424-2048 (770) 455-8160 (770) 552-8836

(7/0) 923-9393
CHEMTREC:
(800) 424-9300
DISTRICT OF COLUMBIA:
(202) 483-7616

TOLL F

TOLL FREE-CALLS RECORDED

BETWEEN 8:00 AM - 5:00 PM (EST)

NON OFFICE HOURS, WEEKENDS

AND HOLIDAYS, PLEASE CALL

LOCAL POISON CONTROL

ALL CALLS RECORDED

A86723

EFFECTS (SEE NOTICE) % IN PKOD. SECTION II - HAZARDOUS INGREDIENTS DESIGNATIONS (PPM) OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910 1200) DOES NOT REQUIRE THE LISTING OF ANY INGREDIENTS FOR THIS PRODUCT. SECTION III - HEALTH HAZARD DATA
SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions. are practiced. ACUTE EFFECTS OF OVEREXPOSURE: Product is considered non-toxic orally according to 16 CFR 1500.3 (Code of Federal Regulations 16, Federal Hazardous Substances Act Regulations, Part 1500.3). However, no product should be intentionally ingested. Ingestion of an excessive amount of the product may cause complications. There are no known effects from acute overexposure to this product. However, in light of good industrial hygiene, exposure to any chemical should be CHRONIC EFFECTS OF OVEREXPOSURE:
There are no known effects from chronic exposure to this product.
None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA
EST D PEL/TLV: Not established PRIMARY ROUTES OF ENTRY: N/A HMIS CODES: HEALTH 0; FLAM, 0; REACT, 0; PERS, PROTECT, A., CHRONIC HAZ, NO FIRST AID PROCEDURES:
SKIN: Flush contaminated skin with plenty of water. Consult a physician if irritation develops.
EYES. Flush eyes thoroughly with plenty of water. If irritation persists, consult a physician
INHALE: Move exposed person to Iresh air. If irritation persists, get medical attention promptly,
INGEST. If this product is swallowed, do not induce vomiting. If victim is conscious give plenty of water to drink. Get medical attention at once. PROTECTIVE CLOTHING: Wearing neoprene or nitrile gloves is recommended when prolonged excessive contact occurs (eg immersing hands) EYE PROTECTION: Use of light-fitting safety glasses or goggles is strongly recommended, especially when wearing contact lenses. VENTILATION: No special measures are required. VENTILATION: No special measures are required. SECTION V - PHYSICAL DATA BOILING POINT (F):

VAPOR PRESSURE (mmHg):

VAPOR DENSITY (AIR=1):

VAPOR DENSITY (AIR=1):

VAPOR DENSITY (AIR=1):

VAPOR DENSITY (AIR=1):

VOC CONTENT (CONCENTRATE):

APPEARANCE AND ODOR: A CLEAR, GREEN LIQUID WITH A SASSAFRAS FRAGRANCE SPECIFIC GRAVITY: EVAPORATION RATE (WATER=1) pH(CONCENTRATE): pH(USE DILUTION OF N/D): 1.00 1.0 9.0-9.5 N/D SECTION VI - FIRE AND EXPLOSION DATA FLASH POINT (C) (METHOD USED): N/A
FLAMMABLE LIMITS: LEL: N/A UEL: N/A
EXTINGUISHING MEDIA: Noncombustible.
SPECIAL FIRE FIGHTING: Wear self-contained positive pres. breathing apparatus.
UNUSUAL FIRE HAZARDS: None SECTION VII - REACTIVITY DATA STABILITY: Stable
INCOMPATIBLILITY(AVOID): Strong oxidizing agents.
POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: Carbon dioxide, carbon monoxide, and other unidentified organic compounds. STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILL AND DISPOSAL PROCEDURES

Observe safety procedures in section 4 & 9 during clean-up. Absorb spill on inert absorbent material (eg Zep-O-Zorb). Pick up and place residue in a suitable waste container or, if permitted, flush to sewer. Thoroughly rinse spill area with water.

WASTE DISPOSAL METHOD:
Liquid wastes are not contained. Liquid wastes are not permitted in landfills. This product is not considered a hazardous waste under RCRA. Unusable liquid may be absorbed on an unert absorbent material (eg. Zep-O-Zorb), drummed, and taken to a chemical or industrial landfill. In some areas disposal by flushing into a sanitary sewer with plenty of water may be permissible. Consult local, state, and federal agencies for proper disposal method in your area. RCRA HAZ. WASTE NOS:: N/A SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:
Store tightly closed container in a dry area at temps, between 40-120 degrees F.
Keep product out of eyes.
Avoid prolonged contact with skin
Clothing or shoes which become contaminated with substance should be removed promptly and not reworn until thoroughly cleaned.
Keep out of the reach of children. MOR 001387

SECTION X - REGULATORY INFORMATION
DOT PROPER SHIPPING NAME: INDUSTRIAL CLEANERS N.O.I., LIQUID KEEP FROM

Keep out of the reach of children.

FREEZING
NOTE: DOT information applies to larger package sizes of affected products. For some products, DOT may require alternate names and labeling in

**Product No:** 

T848

SECTION X - REGULATORY INFORMATION (continued)

DOT PACKING GROUP: DOT HAZARD CLASS: DOT I.D. NUMBER: DOT LABEL/PLACARD:
EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED
EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): SODIUM DODECYL BENZENE SULFONATE - 1000#

#### NOTICE

Thank you for your interest in, and use of. Zep products. Zep Manufacturing Co. is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Manufacturing is concerned for your health and safety. Zep products can be used safety with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any Zep product, be sure to read the complete label and the Material Safety Data Sheet.

As a further word of caution. Zep wishes to advise that senious accidents have resulted from the misuse of "emptied" containers. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do NOT pressurate, cut weld braze, solder, drill, grind or expose such containers to heat, titume, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Cleen empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

### TERMS AND ABBREVIATIONS LISTED ALPHABETICALLY BY SECTION

SECTION II: HAZARDOUS INGREDIENTS CAR: Carcinogen - A chemical issled by the National Toxicology Program (NTP), the International Agency for Research on Cance (IARC) or OSHA as a definite or possible human cancer causing

(IARIC) or USITIA as a unified or processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the processor of the proces

tissue (e.g. burns). DESIGNATIONS: Chemical and common names of hazardous

ingredients. EIR: Eye Irritant Only - Causes reversible reddening and/or

EIN: Eye Intram Only - Causes reversible reddening and/or inflammation of eye issues. EXPOSURE LIMITS The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLVs. and OSHA PELs (TWA, STEL and ceiling limits). ACGIH American Conference of Governmental Industrial Hydrogenic.

ACGIH American Conference of Governmental Industrial Hygienats. CEILING The concentration that should not be exceeded in the workplace during any part of the working exposure. OSHA: Occupational Safety and Health Administration PEL: Permasable Exposure Limit - A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week PPM: Parts per miltion - unit of measure for exposure limits. ISI SIKIN: Stin contract with substance can contribute to (S) SKIN: Sion contact with substance can contribute to overall exposure
STEL: Short Term Exposure Limit - Maximum concentration

for a continuous 15-minute exposure period.

TLV: Threshold Limit Value - A set of time weighted
acrage exposure limits, established by the ACGIH, for a
normal 8-hour day and a 40-hour work week

enough vapor to ignite if a source of ignition is present as tested with a closed cup tester HAZARDOUS INGREDIENTS. Chemical substances determined to be potential health or physical hazards based on the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910 1200

HTX. Highly toxic - the probable lethal dose for a 70kg (150 lb.) man and may be approximated as less than 6 teaspoons (2

IRR. Irritant - Causes reversible effects in living tesues (e.g. inflammation) - primarily skin and eyes. N/A: Not Applicable - Category is not appropriate for this

product. N.D: Not Determined - Insufficient information to make a N.D. Not betermined - mischall and the state of chemical Substances - an unreviewed listing of published toxicology data on chemical

SARA: Superfund Amendment and Reauthorization Act - Section 313 designates chemicals for possible reporting for the Toxics Release Inventory. SEN: Sensitizer - Causes allergic reaction after repeated

exposure.
TOX: Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

SECTION III: HEALTH HAZARD DATA

SECTION III: HEALTH HAZARD DATA
ACUTE EFFECT. An adverse effect on the human body from a
single exposure or within a relatively short time.
CHRONIC EFFECT: Adverse effects that are most skely to occur
from repeated exposure over a long period of time
EST D PEL/TLV: The estimated, time-weighted sverage, exposure
limit, developed by using a formula provided by the ACGIH.
pertains to airborne concentrations from the product as a
whole. This value should serve as guide for provising safe
workplace conditions to nearly all workers.
HMIS CODES: Hazardous Material Identification System - a rating
system developed by the National Paint and Coating Association
for estimating the hazard potential of a chemical under normal
workplace conditions. These risk estimates are indicated by a
numerical rating given in each of three hazard areas
(Health/Flammability/Reactivity) ranging from a low of zero to a
high of 4. The presence of a chronic hazard is indicated with a yes.
Consult HMIS training guides for Personal Protection letter
codes which indicate necessary protective equipment.
PRIMARY ROUTE OF ENTRY: The way one or more hazardous
ingredients may enter the body and cause a generalized-systemic
or specific-organ toxic effect.
ING: Ingestion - A primary route of exposure through
swellowing of material

inG: Ingestion - A primary route of exposure through swallowing of material INH: Inhalation - A primary route of exposure through breathing of vacors

SKIN: A primary route of exposure through contact with

SECTION IV: SPECIAL PROTECTION INFORMATION Where respiratory protection is recommended, use only MSH NIOSH approved respirators and dust masks MSHA: Mine Safety and Health Administration NIOSH: National Institute for Occumational Safety and Health

SECTION V: PHYSICAL DATA
EVAPORATION RATE Refers to the rate of change from the
liquid state to the vapor state at ambient temperature and
pressure in comparison to a given substance (e.g. water)
pH; A value representing the acidity or alkalinity of an
aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline pH = 14)
VOC CONTENT. The percentage or amount in pounds per
gallion of the product that is regulated as a Volatile Organic
Compound under the Clean Air Act of 1990 and various state jurnsdictions.
SOLUBILITY IN WATER: A description of the ability of the

product to dissolve in water

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION. Breakdown products expected to be produced upon product decomposition by settreme heat or fire. INCOMPATIBILITY: Material contact by extreme heat and the conditions to avoid to prevent hazardous reactions. POLYMERIZATION: Indicates the tendency of the product's molecules to combine with themselves in a chemical reaction.

releasing excess pressure and heat STABILITY: indicates the susceptibility of the product to apontaneously and dangerously decompose.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES RCRA WASTE NOS: RCRA (Resource Conservation and Reco waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

SECTION X: TRANSPORTATION DATA
CWA: Clean Water Act-Federal Law which regulates chemical releases to bodies of water
RC: Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies.
TSCA: Toxic Substances Control Act - a federal faw requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with out products may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products. Tom incompatible product combinations, or from the fasher to follow instructions, warrangs, and advisones in the products label. instructions, warrangs, and advisores in the products label and Material Safety Data Sheet.

(rev. 1/98)

MOR 001388

Rec Jp /22/99



ZEP MANUFACTURING COMPANY P.O. BOX 2015 ATLANTA, GEORGIA 30301

RECELLULAR INC (343) 5500 S STATE STREET ANN ARBOR, MI 48108

## MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

03/22/97

**ISSUE DATE: 06/20/94 SUPERSEDES: 07/12/89** 

ZEP BIG ORANGE

PRODUCT NO.: 0415

Industrial Solvent Degresser

SECTION I - EMERGENCY CONTACTS

TELEPHONE: (404) 352-1680

BETWEEN 8:00 AM - 5:00 PM (EST)

MEDICAL EMERGENCY:

(770) 439-4200 (770) 432-2873 (770) 432-2873 (770) 424-4789 (770) 392-1480 (770) 455-8160 (770) 552-8836

NON-OFFICE HOURS, WEEKENDS LOCAL POISON CONTROL

TRANSPORTATION EMERGENCY:

(770) 922-0923 CHEMTREC:

1-800-424-9300

DISTRICT OF COLUMBIA: (202) 483-7616

**TOLL-FREE - ALL CALLS RECORDED** 

**ALL CALLS RECORDED** 

**SECTION II - HAZARDOUS INGREDIENTS** 

DESIGNATIONS D-LIMONENE orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-; CAS# 5989-27-5;

TLV (PPM) N/D

EFFECTS % IN (SEE REVERSE) PROD

< 5

RTECS # GW6360000; OSHA PEL N/D

NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL ™ npe; poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy;

CBL SEN > 90

FIR

SECTION III - HEALTH HAZARD DATA Special Note: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

**Acute Effects of Overexposure:** 

This product can be an eye irritant. Inflammation of eye tissue is characterized by redness, watering, and/or itching. One of the ingredients in this product has caused sensitization reactions in a small percentage of the general population.

Chronic Effects of Overexposure:

Contact, especially if prolonged of repeated, may cause redness, itching, or blistering of the skin. None of the hazardous ingredients are listed as carcinogens by IARC, NTP. & OSHA

:t'd PEL/TLV: Not established

Primary Routes of Entry: N/A

11S Codes: HEALTH 1;FLAM. 2;REACT. 0;PERS. PROTECT. B ;CHRONIC HAZ. NO

Škin: Wash contaminated skin thoroughly with soap or a mild detergent. Apply a skin cream with lanolin. Get medical attention if irritation persists. Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once

Inhale: Move exposed person to fresh air. If irritation persists, get medical attention promptly.

Ingest: If this product is swallowed, do not induce vomiting. If victim is conscious give plenty of water to drink. Get medical attention at once.

SECTION IV - SPECIAL PROTECTION INFORMATION

Protective Clothing: Eye Protection:

Wear nitrile gloves or use gloves with demonstrated resistance to the ingredients in this product.

Wear tight-fitting splash-proof safety glasses especially if contact lenses are worn. No special measures are required.

Respiratory Protection: Ventilation:

No special measures are required

Boiling Point (°F): 338-Percent Volatile by Volume (%): 93.8 338-375

Specific Gravity: Vapor Density (air = 1):

SECTION V - PHYSICAL DATA 0.853

Vapor Pressure (mmHg): Evaporation Rate (CCL4 = 1): pH (use dilution of 1:20 ):

N/A ~33 7.6

· - -

EMULSIFIES Solubility in Water. pH (concentrate): Appearance and Odor: ORANGE LIQUID WITH A CITRUS ODOR

CAS# 9016-45-9; RTECS# MD905000; OSHA PEL-N/D

SECTION VI - FIRE AND EXPLOSION DATA

Flash Point (°F) (method used): 121 (TCC) Flammable Limits: LEL N/A U

tinguishing Media: ecial Fire Fighting:

LEL N/A UEL N/A

Carbon dioxide, dry chemical and foam.

been majoria.

nusual Fire Hazards:

Fire exposed drums should be cooled with stream of water.

None

### ZEP MANUFACTURING COMPANY MATERIAL SAFETY DATA SHEET

SECTION VII - REACTIVITY DATA

Stability:

Incompatibility (avoid):

Strong oxidizing agents.

Polymerization:

Will not occur

Hazardous Decomposition:

Carbon dioxide, carbon monoxide, and other unidentified organic compounds.

#### SECTION VIII - SPILL AND DISPOSAL PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

iserve safety procedures in section 4 & 9 during clean-up. Absorb spill on inert absorbent material (eg Zep-O-Zorb). Pick up and place residue in a suitable waste intainer or, if permitted, flush to sewer. Thoroughly rinse spill area with water.

Waste Disposal Method:

Liquid wastes are not permitted in landfills. This product is not considered a hazardous waste under RCRA. Unusable liquid may be absorbed on an inert absorbent material (eg. Zep-O-Zorb), drummed, and taken to a chemical or industrial landfill. In some areas disposal by flushing into a sanitary sewer with plenty of water may be permissible. Consult local, state, and federal agencies for proper disposal method in your area.

RCRA Hazardous Waste Numbers: N/A

### SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken When Handling and Storing:

Store tightly closed container in a dry area at temps, between 40-120 degrees F. Keep product out of eyes. Avoid prolonged contact with skin. Clothing or shoes which become contaminated with substance should be removed promptly and not reworn until thoroughly cleaned. Keep out of the reach of children.

### SECTION X - TRANSPORTATION DATA

**DOT Label/Placard: NONE** 

DOT PROPER SHIPPING NAME Small sizes one gallon or less may be shipped as ORM-D: NONE

DOT Hazard Class: N/A

DOT I.D. Number: N/A

EPA TSCA Chemical Inventory: ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR Part 117 substance (RQ in a single container) : SODIUM DODECYL BENZENE SULFONATE - 1000 #

Thank you for your interest in, and use of, Zep products. Zep Manufacturing Co. is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Manufacturing is concerned for your health and safety. Zep products can be used safely with proper protective equip-ment and proper handling practices consistent with label instructions and the MSDS. Before using any Zep product, sure to read the complete label and the Material Salety Data Sheet.

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse "emptied" containers. "Empty" containers retain resi (liquid and/or vapor) and can be dangerous. DO NOT pres-Surize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple risality with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

#### TERMS AND ABBREVIATIONS USED IN THE MSDS: BY SECTION ALPHABETICALLY:

TION II: HAZARDOUS INGREDIENTS

ogy Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA as a definite or possible human cancer causing agent.
CAS #; Chemical Abstract Services Registry Number - A

universally accepted numbering system for chemical sub-

CBL: Combustible - At temperatures between 100°F and 200° Communities off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester. CNS: Central Nervous System depressant reduces the activities. ity of the brain and spinal cord.

COR: Corrosive - Causes Irreversible alterations in living

tissue (e.g. burns).
DESIGNATIONS: Chemical and common names of hazardous inaredients.

EIR: Eye Irritant Only - Causes reversible reddening and/or

inflammation of eye tissues.

EXPOSURE UMITS; The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLV's, and OSHA PEL's (TWA, STEL and ceiling limits).

ACGIH; American Conference of Governmental Industrial Hygienists.

CEILING: The concentration that should not be exceeded in the workplace during any part of the working exposure.

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit- A set of time weighted

average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.

FPM: Parts per million - unit of measure for exposure

(S) SKIN; Skin contact with substance can contribute to overall exposure.

STEL: Short Term Exposure Limit- Maximum concentration

for a continuous 15-minute exposure period. TLV; Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week

FBL: Flammable - At temperatures under 100°F, chemical

gives off enough vapor to Ignite if a source of ignition is present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS; Chemical substances determined to be potential health or physical hazards by the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

HTX; Highly toxic - the probable lethal dose for 70 kg (150 lb.) man and may be approximated as less than 6 teaspoons (2 tablespoons).

IRR: Irritant - Causes reversible effects in living tissues (e.g.

inflammation) - primarily skin and eyes.

N/A; Not Applicable - Category is not appropriate for this product.

N/D; Not Determined - Insufficient information for a deter-

mination for this item

RTECS#; Registry of Toxic Effects of Chemical Substances an unreviewed listing of published toxicology data on chemical substances.

SARA: Superfund Amendments and Reauthorization Act -

Section 313 designates chemicals for possible reporting for the Toxics Release Inventory. SEN; Sensitizer - Causes allergic reaction after repeated

TOX; Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

SECTION III: HEALTH HAZARD DATA

ACUTE EFFECT; An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time. CHRONIC EFFECT; Adverse effects that are most likely to

CHRONIC EFFECT; Adverse effects that are most likely to occur from repeated exposure over a long period of time. EST'D PEUTLV; This estimated, time-weighted average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for provid-ing safe workplace conditions to nearly all workers.

HMIS CODES; Hazardous Material Identification System - a rating system developed by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/Flammability/Reactivity) ranging from a low of zero to a high of 4. A chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective

PRIMARY ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a general-

articles ingredients may enter the body and cause a general-ized-systemic or specific-organ toxic effect. I/NG: Ingestion - A primary route of exposure through swallowing of material. I/NI: Inhalation - A primary route of exposure through breatting of vecors.

breathing of vapors.

SKIN; A primary route of exposure through contact with

the skin.

#### SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks. MSHA; Mine Safety and Health Administration NIOSH; National Institute for Occupational Safety and

SECTION V: PHYSICAL DATA

EVAPORATION RATE; it refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water). pH; A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline

PERCENT VOLATILE: The percentage of the product (liquid or solid) that will evaporate at 212°F and ambient pressure. SOLUBILITY IN WATER: A description of the ability of the product to dissolve in water.

SECTION VIL REACTIVITY DATA

HAZARDOUS DECOMPOSITION; Breakdown products expeced to be produced upon product decomposition or fire. INCOMPATIBILITY; Material contact and conditions to avo. to prevent hazardous reactions.

POLYMERIZATION; Indicates the tendency of the product's molecules to combine in a chemical reaction releasing exess pressure and heat.

STABILITY; Indicates the susceptibility of the product to spontaneously and dangerously decompose

SECTION VIIE SPILL AND DISPOSAL PROCEDURES

RCRA WASTE MOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

SECTION X: TRANSPORTATION DATA

CWA: Clean Water Act

RQ; Reportable Quantity - The amount of the specific Ingradient that, when spilled to the ground and can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies. TSCA: Toxic Substances Control Act - a federal law requiring all commercial chemical substances to appear on ar Inventory maintained by the EPA.

### DISCLAIMER

All statements, technical information and recommendation contained herein are based on available scientific tests a data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the product's label and Material Safety Data Sheet.

(Notice Revised 8/91)

| PO0153.05 1<br>* HISTORY * |        |          |       |        | e Order<br>iver Det | 13:41:52 | 12/03/01 |         |      |  |
|----------------------------|--------|----------|-------|--------|---------------------|----------|----------|---------|------|--|
| •                          | Produ  | uct 1014 | 1770  | GEN S  | OLDEI               | R BAR SN | 63       |         |      |  |
|                            | Vendor | Disp     | P.O.  | Rec No | Lin                 | Date     | Received | Billed  | Whse |  |
|                            | 2928   | STOCK    | 66053 | 8167   | 10                  | 82792    | 500.000  | .000    | SR   |  |
|                            | 2928   | STOCK    | 66053 | 9246   | 20                  | 92292    | 500.000  | .000    | SR   |  |
|                            | 2928   | STOCK    | 66053 | 9350   | 30                  | 92492    | 500.000  | .000    | SR   |  |
|                            | 2928   | STOCK    | 66053 | 10598  | 40                  | 102392   | 500.000  | .000    | SR   |  |
|                            | 2928   | STOCK    | 66053 | 11729  | 50                  | 112592   | 500.000  | .000    | SR   |  |
|                            | 2928   | STOCK    | 66053 | 12681  | 60                  | 122892   | 500.000  | .000    | SR   |  |
|                            | 2928   | STOCK    | 66053 | 13582  | 70                  | 12593    | 500.000  | .000    | SR   |  |
|                            | 2928   | STOCK    | 66053 | 14781  | 80                  | 22293    | 500.000  | .000    | SR   |  |
|                            | 2928   | STOCK    | 66053 | 17989  | 90                  | 43093    | 500.000  | 500.000 | SR   |  |
|                            | 2928   | STOCK    | 66053 | 18949  | 100                 | 52093    | 500.000  | 500.000 | SR   |  |
|                            | 2928   | STOCK    | 66053 | 20255  | 110                 | 62393    | 500.000  | 500.000 | SR   |  |
|                            | 2928   |          | 66053 | 21217  | 120                 | 72193    | 500.000  | 500.000 | SR   |  |
|                            |        | STOCK    | 71120 | 22344  | 10                  | 82593    | 500.000  | 500.000 | SR   |  |
|                            |        | STOCK    | 71120 | 23335  | 20                  | 92793    | 500.000  | 500.000 | SR + |  |

F3=Exit

F7≈Fold

F12=Previous

Earlier Vicipte dom

| PO0153.05 1<br>* HISTORY * |          |               |        |      | e Order<br>iver Det | 13:41:52 | 12/03/   | 01   |   |
|----------------------------|----------|---------------|--------|------|---------------------|----------|----------|------|---|
| Produ                      | act 1014 | 770           | GEN S  | OLDE | R BAR SI            | 163      |          |      |   |
| Vendor                     | Disp     | P.O.          | Rec No | Lin  | Date                | Received | Billed   | Whse |   |
| 2928                       | STOCK    | 71120         | 24208  | 30   | 102293              | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 25364  | 40   | 112493              | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 26146  | 50   | 122293              | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 27320  | 60   | 12594               | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 28896  | 70   | 22894               | 50.000   | 50.000   | SR   |   |
| 2928                       | STOCK    | 71120         | 28930  | 70   | 22894               | 450.000  | 450.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 29778  | 80   | 32494               | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 31060  | 90   | 42594               | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 32610  | 100  | 52494               | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 33999  | 999  | 62294               | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 71120         | 35151  | 999  | 71894               | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 77919         | 37099  | 10   | 81894               | 500.000  | 500.000  | SR   |   |
| 2928                       | STOCK    | 7791 <b>9</b> | 38328  | 10   | 90794               | 400.000  | 500.000  | SR   |   |
| 7622                       | STOCK    | 81194         | 39310  | 10   | 92694               | 1005.000 | 1000.000 | SR   | + |

| PO0153.05 1<br>* HISTORY * |          |       |               |       | e Order<br>iver Det | 13:41:52 | 12/03/01 |      |
|----------------------------|----------|-------|---------------|-------|---------------------|----------|----------|------|
| Prod                       | uct 1014 | 1770  | GEN S         | OLDEI | R BAR SN            | 163      |          |      |
| Vendor                     | Disp     | P.O.  | Rec No        | Lin   | Date                | Received | Billed   | Whse |
|                            | STOCK    | 77919 | 40020         | 10    | 100694              | 529.000  | 500.000  | SR   |
| 2928                       | STOCK    | 77919 | 41798         | 10    | 110894              | 532.000  | 500.000  | SR   |
| 2928                       | STOCK    | 77919 | 44105         | 10    | 121594              | 500.000  | 500.000  | SR   |
| 2928                       | STOCK    | 77919 | 45033         | 10    | 10495               | 500.000  | 500.000  | SR   |
| 2928                       | STOCK    | 82414 | 46176         | 10    | 12095               | 1500.000 | 1500.000 | SR   |
| 2928                       | STOCK    | 82414 | 49159         | 20    | 30395               | 500.000  | 500.000  | SR   |
| 2928                       | STOCK    | 82414 | 51754         | 30    | 33195               | 500.000  | 500.000  | SR   |
| 1625                       | STOCK    | 85234 | 52106         | 10    | 40595               | 500.000  | 500.000  | SR   |
| 2928                       | STOCK    | 82414 | 53816         | 40    | 42695               | 500.000  | 500.000  | SR   |
| 1625                       | STOCK    | 85985 | 54556         | 10    | 50595               | 1500.000 | 1500.000 | SR   |
| 2928                       | STOCK    | 82414 | 55225         | 50    | 51695               | 500.000  | 500.000  | SR   |
| 2928                       | STOCK    | 82414 | 56695         | 60    | 60795               | 500.000  | 500.000  | SR   |
| 1625                       | MRA      | 86219 | 58110         | 10    | 62795               | 63.000   | .000     | MA   |
| 1625                       | STOCK    | 86219 | 58 <b>669</b> | 10    | 70395               | 417.000  | 417.000  | SR + |
|                            |          |       |               |       |                     |          |          |      |

F7=Fold

F3=Exit

| PO0153.05 1<br>* HISTORY * |         |       |        |      | e Order<br>iver Det | 13:41:52 | 12/03/01 |      |
|----------------------------|---------|-------|--------|------|---------------------|----------|----------|------|
| Prod                       | uct 101 | 4770  | GEN SO | DLDE | R BAR SN            | 163      |          | •    |
| Vendor                     | •       | P.O.  |        | Lin  | Date                | Received | Billed   | Whse |
| 1625                       |         | 86219 | 58670  | 20   | 70395               | 91.000   | 91.000   | SR   |
| 1625                       | STOCK   | 86219 | 60086  | 30   | 72095               | 480.000  | 480.000  | SR   |
| 1625                       | STOCK   | 86219 | 60087  | 20   | 72095               | 28.000   | 28.000   | SR   |
| 1625                       | STOCK   | 86219 | 62539  | 20   | 81895               | 520.000  | 520.000  | SR   |
| 1625                       | STOCK   | 90089 | 65890  | 20   | 92 <b>99</b> 5      | 510.000  | 501.000  | SR   |
| 1625                       | STOCK   | 90089 | 66100  | 10   | 100495              | 497.000  | 497.000  | SR   |
| 1625                       | STOCK   | 90089 | 69375  | 20   | 112295              | 490.000  | 490.000  | SR   |
| 1625                       | STOCK   | 90089 | 72531  | 20   | 11296               | 970.000  | 970.000  | SR   |
| 1625                       | STOCK   | 90089 | 74425  | 20   | 20696               | 500.000  | 500.000  | SR   |
| 1625                       | STOCK   | 91844 | 82738  | 10   | 62096               | 544.000  | 544.000  | SR   |
| 1625                       | STOCK   | 91844 | 86693  | 10   | 82196               | 500.000  | 500.000  | SR   |
| 1625                       | STOCK   | 91844 | 89501  | 10   | 92496               | 500.000  | 500.000  | SR   |
| 1625                       |         | 91844 | 91712  | 10   | 102296              | 500,000  | 500.000  | SR   |
|                            | STOCK   | 91844 | 93580  | 10   | 111596              | 500.000  | 500.000  | SR + |

| PO0153.05<br>* HISTORY *                                                                                                    | 1                                                                    |                                                         | ase Order I<br>ceiver Deta                                              |                                                                            | 13:41:52                                                                 | 12/03/01                                       |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------|
| Product 101                                                                                                                 | 4770                                                                 | GEN SOLI                                                | DER BAR SN6                                                             | 53                                                                         |                                                                          |                                                |
| Vendor Disp<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK | P.O.<br>91844<br>91844<br>91844<br>91844<br>91844<br>91844<br>101351 | 99365<br>100453<br>102387<br>102857<br>104875<br>107939 | in Date 10 121796 10 20397 10 21497 10 31497 10 32197 10 41697 10 60397 | Received<br>500.000<br>500.000<br>540.000<br>480.000<br>480.000<br>480.000 | Billed<br>500.000<br>500.000<br>500.000<br>480.000<br>480.000<br>480.000 | Whse<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR |
| 1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK<br>1625 STOCK                              | 101351<br>101351<br>101351<br>101351<br>101351<br>101351             | 109856<br>111626<br>112275<br>114272<br>116366          | 10 70297<br>10 72897<br>10 80597<br>10 90497<br>10 100197<br>30 120197  | 240.000<br>240.000<br>480.000<br>420.000<br>600.000<br>72.000              | 240.000<br>240.000<br>480.000<br>420.000<br>600.000<br>72.000            | SR<br>SR<br>SR<br>SR<br>SR<br>SR +             |

F7=Fold

F3=Exit

Purchase Order Inquiry PO0153.05 1 13:41:52 12/03/01 \* HISTORY \* Receiver Detail GEN SOLDER BAR SN63 Product 1014770 Vendor Disp P.O. Rec No Lin Date Received Billed Whse 1625 STOCK 101351 121866 30 10998 66.000 66.000 SR 1625 STOCK 101351 125415 30 30598 72.000 72.000 SR 1625 STOCK 101351 128422 30 41698 60.000 60.000 SR 130403 1625 STOCK 101351 30 51998 84.000 84.000 SR 1625 STOCK 101351 132325 40 62698 60.000 60.000 SR 1625 STOCK 101351 136127 40 82498 60.000 60.000 SR 1625 STOCK 101351 138262 40 100298 60.000 60.000 SR 1625 STOCK 101351 140027 40 110498 54.000 54.000 SR 1625 STOCK 101351 142160 40 121598 60.000 60.000 SR

11899

60.000

10.000

50.000

60.000

10.000

50.000

SR

SR

SR

F3=Exit F7=Fold F12=Previous

143815 40

145143 40 21599

145149 40 21599

1625 STOCK

1625 STOCK

1625 STOCK 101351

101351

101351

| P00153.05 1 Purchase Order Inquiry 17:36 Receiver Detail Product 1014770 GEN SOLDER BAR SN63 | 30 11/15/01 |
|----------------------------------------------------------------------------------------------|-------------|
| Vendor Diap P.O. Rec No Lin Date Received Bi                                                 | led Whse    |
| 1625 STOCK 109500 146638 10 31199 24.000 24                                                  | 000 SR      |
| 16 <del>25 STO</del> CK 109500 148763 10 41499 60.000 60                                     | 000 SR      |
| 1625 STOCK 109500 149581 10 42799 18.000 18                                                  | 000 SR      |
| 1625 STOCK 109500 150101 10 50599 12.000 12                                                  | 000 SR      |
| 1625 STOCK 109500 150936 10 51999 18.000 18                                                  | 000 SR      |
| 1625 STOCK 109500 151365 10 52699 18.000 18                                                  | 000 SR      |
| 1625 STOCK 109500 151683 10 60399 12.000 12                                                  | 000 SR      |
| 1625 STOCK 109500 152229 10 61599 18.000 18                                                  | 000 SR      |
| 1625 STOCK 109500 152945 10 62999 24.000 24                                                  | 000 SR      |
| 1625 STOCK 109500 156130 10 81699 54.000 54                                                  | 000 SR      |
| 1625 STOCK 109500 156966 10 82699 18.000 18                                                  | 000 SR      |
| 1625 STOCK 109500 158247 10 91099 36.000 36                                                  | 000 SR      |
| 1625 STOCK 109500 158484 10 91599 24.000 24                                                  | 000 SR      |
| 1625 STOCK 109500 159928 10 100799 18.000 18                                                 | 000 SR +    |

F3=Exit.

F7=Fold

F12=Previous

10 LB Solher Bars

| PO015  | 3.05    | 1      |        |       | e Order<br>iver Det | ail      | 17:36:30 | 11/15/ | 01 |
|--------|---------|--------|--------|-------|---------------------|----------|----------|--------|----|
| Prod   | uct 101 | 4770   | GEN S  | OLDEI | R BAR SN            | 163      |          |        |    |
| Vendor | Disp    | P.O.   | Rec No | Lin   | Date                | Received | Billed   | Whse   | :  |
| 1625   | STOCK   | 109500 | 160476 | 10    | 101599              | 12.000   | 12.000   | SR     |    |
| 1625   | STOCK   | 109500 | 160822 | 10    | 102199              | 4.000    | 4.000    | SR     |    |
| 1625   | STOCK   | 109500 | 161183 | 10    | 102799              | 11.000   | 10.000   | SR     |    |
| 1625   | STOCK   | 109500 | 161700 | 10    | 110499              | 8.000    | 8.000    | SR     |    |
| 1625   | STOCK   | 109500 | 162112 | 10    | 111299              | 1.000    | .000     | SR     |    |
| 1625   | STOCK   | 109500 | 162310 | 10    | 111699              | 24.000   | 24.000   | SR     |    |
| 1625   | STOCK   | 109500 | 163082 | 10    | 112999              | 10.000   | 10.000   | SR     |    |
| 1625   | STOCK   | 109500 | 163271 | 10    | 120199              | 30.000   | 30.000   | SR     |    |
| 1625   | STOCK   | 109500 | 164132 | 10    | 121699              | 6.000    | 6.000    | SR     |    |
| 1625   | STOCK   | 109500 | 164601 | 10    | 122399              | 6.000    | 6.000    | SR     |    |
| 1625   | STOCK   | 109500 | 164895 | 10    | 122999              | 12.000   | 12.000   | SR     |    |
| 1625   | STOCK   | 109500 | 165652 | 10    | 11100               | 12.000   | 12.000   | SR     |    |
| 1625   | STOCK   | 109500 | 165831 | 10    | 11300               | 18.000   | 18.000   | SR     |    |
| 1625   | STOCK   | 109500 | 166736 | 10    | 12700               | 24.000   | 24.000   | SR     | +  |
|        |         |        |        |       |                     |          |          |        |    |

F12=Previous

F7=Fold

F3=Exit

| PO0153.05 | 1 | Purchase Order Inquiry | 17:36:30 | 11/15/01 |
|-----------|---|------------------------|----------|----------|
|           |   | Receiver Detail        |          |          |

| ين بند |
|--------|
| يجاريم |

| Prod   | uct 101 | 4770   | GEN S  | OLDER | BAR SN | 63       |        |      |   |
|--------|---------|--------|--------|-------|--------|----------|--------|------|---|
| Vendor | Disp    | P.O.   | Rec No | Lin   | Date   | Received | Billed | Whse |   |
| 1625   | STOCK   | 109500 | 167709 | 10    | 21000  | 18.000   | 18.000 | SR   |   |
| 1625   | STOCK   | 109500 | 168866 | 10    | 22500  | 18.000   | 18.000 | SR   |   |
| 1625   | STOCK   | 109500 | 169142 | 10    | 30100  | 18.000   | 18.000 | SR   |   |
| 1625   | STOCK   | 109500 | 170380 | 10    | 31600  | 18.000   | 18.000 | SR   |   |
| 1625   | STOCK   | 109500 | 171456 | 10    | 33000  | 36.000   | 36.000 | SR   |   |
| 1625   | STOCK   | 109500 | 174524 | 10    | 50200  | 24.000   | 24.000 | SR   |   |
| 1625   | STOCK   | 109500 | 174705 | 10    | 50400  | 6.000    | 6.000  | SR   |   |
| 1625   | STOCK   | 109500 | 174724 | 10    | 50400  | 12.000   | 12.000 | SR   |   |
| 1625   | STOCK   | 109500 | 175242 | 10    | 51000  | 36.000   | 36.000 | SR   |   |
| 1625   | STOCK   | 109500 | 175861 | 10    | 51600  | 6.000    | 6.000  | SR   |   |
| 1625   | STOCK   | 109500 | 176495 | 10    | 52300  | 12.000   | 12.000 | SR   |   |
| 1625   | STOCK   | 109500 | 177031 | 10    | 60100  | 10.000   | 10.000 | SR   |   |
| 5626   | STOCK   | 114182 | 177793 | 30    | 61900  | 12.000   | 12.000 | SR   |   |
| 5626   | STOCK   | 114182 | 178071 | 30    | 62100  | 24.000   | 23.000 | SR   | + |

| PO0153.05   | 1        |        |      | e Order<br>iver Det | Inquiry<br>ail | 17:36:30 | 11/15/01 |
|-------------|----------|--------|------|---------------------|----------------|----------|----------|
| Product 1   | 014770   | GEN S  | OLDE | R BAR SI            | 163            |          |          |
| Vendor Disp | P.O.     | Rec No | Lin  | Date                | Received       | Billed   | Whse     |
| 1625 STO    | K 109500 | 178150 | 10   | 62200               | 12.000         | 12.000   | SR       |
| 1625 STOC   | K 109500 | 178156 | 20   | 62200               | 18.000         | 18.000   | SR       |
| 5626 STOC   | K 114182 | 180310 | 30   | 71800               | 30.000         | .000     | SR       |
| 5626 STOC   | K 114182 | 181464 | 30   | 80100               | 12.000         | 12.000   | SR       |
| 1625 STOC   | K 109500 | 182264 | 20   | 81000               | 7.000          | 7.000    | SR       |
| 5626 STOC   | K 114182 | 182262 | 30   | 81000               | 12.000         | 12.000   | SR       |
| 5626 STOC   | K 114182 | 182615 | 30   | 81500               | 18.000         | 18.000   | SR       |
| 5626 STOC   | K 114182 | 183907 | 30   | 82800               | 18.000         | 18.000   | SR       |
| 5626 STOC   | K 114182 | 184137 | 30   | 83000               | 12.000         | 12.000   | SR       |
| 5626 STOC   | K 114182 | 184755 | 30   | 90700               | 12.000         | 12.000   | SR       |
| 5626 STOC   | K 114182 | 184998 | 30   | 91100               | 18.000         | 18.000   | SR       |
| 5626 STOC   | K 114182 | 185589 | 30   | 91800               | 18.000         | 18.000   | SR       |
| 5626 STOC   | K 114182 | 186195 | 30   | 92500               | 12.000         | 12.000   | SR       |
| 5626 STOC   | K 114182 | 186840 | 30   | 100200              | 18.000         | 18.000   | SR +     |

| PO0153.05   | 1      |        |     | e Order<br>iver Det | Inquiry<br>cail | 17:36:30 | 11/15/01 | • |
|-------------|--------|--------|-----|---------------------|-----------------|----------|----------|---|
| Product 101 | 4770   | GEN SC | LDE | R BAR SI            | 163             |          |          |   |
| Vendor Disp | P.O.   | Rec No | Lin | Date                | Received        | Billed   | Whse     |   |
| 5626 STOCK  | 114182 | 187659 | 30  | 101000              | 18.000          | 18.000   | SR       |   |
| 5626 STOCK  | 114182 | 188131 | 30  | 101600              | 12.000          | 12.000   | SR       |   |
| 5626 STOCK  | 114182 | 188242 | 30  | 101700              | 12.000          | 12.000   | SR       |   |
| 5626 STOCK  | 114182 | 188572 | 30  | 102400              | 12.000          | 12.000   | SR       |   |
| 5626 STOCK  | 114182 | 188913 | 30  | 103100              | 12.000          | 12.000   | SR       |   |
| 5626 STOCK  | 114182 | 190044 | 30  | 110800              | 12.000          | 12.000   | SR       |   |
| 5626 STOCK  | 114182 | 190445 | 30  | 111500              | 6.000           | 6.000    | SR       |   |
| 5626 STOCK  | 114182 | 190995 | 30  | 112200              | 12.000          | 12.000   | SR       |   |
| 5626 STOCK  | 114182 | 191310 | 30  | 112800              | 12.000          | 12.000   | SR       |   |
| 5626 STOCK  | 114182 | 192193 | 30  | 120500              | 12.000          | 6.000    | SR       |   |
| 5626 STOCK  | 114182 | 192578 | 30  | 121200              | 18.000          | 18.000   | SR       |   |
| 5626 STOCK  | 114182 | 193084 | 30  | 121900              | 6.000           | 6.000    | SR       |   |
| 5626 STOCK  | 114182 | 193486 | 30  | 122600              | 12.000          | 12.000   | SR       |   |
| 5626 STOCK  | 114182 | 194044 | 30  | 10201               | 6.000           | 6.000    | SR +     | ٠ |
|             |        |        |     |                     |                 |          |          |   |
|             |        |        |     |                     |                 |          |          |   |

F12=Previous

F7=Fold

F3=Exit

| PO0153       | 3.05    | 1      |        |       | Order<br>ver Det | Inquiry<br>ail | 17:36:30 | 11/15/01 |
|--------------|---------|--------|--------|-------|------------------|----------------|----------|----------|
| Produ        | act 101 | 4770   | GEN S  | OLDER | BAR SN           | 163            |          |          |
| Vendor       | Disp    | P.O.   | Rec No | Lin   | Date             | Received       | Billed   | Whse     |
| 5626         | STOCK   | 114182 | 194729 | 30    | 10801            | 6.000          | 6.000    | SR       |
| 5626         | STOCK   | 114182 | 194954 | 30    | 10901            | 6.000          | 6.000    | SR       |
| 5626         | STOCK   | 114182 | 195681 | 30    | 11601            | 12.000         | 12.000   | SR       |
| 5626         | STOCK   | 114182 | 196554 | 30    | 12301            | 12.000         | 120.000  | SR       |
| 5626         | STOCK   | 114182 | 197891 | 30    | 20701            | 180.000        | 180.000  | SR       |
| 5626         | STOCK   | 114182 | 201688 | 30    | 31401            | 42.000         | 42.000   | SR       |
| 5626         | STOCK   | 114182 | 201822 | 30    | 31401            | 12.000         | 12.000   | SR       |
| 5626         | STOCK   | 114182 | 203269 | 30    | 32801            | 18.000         | 18.000   | SR       |
| 5626         | STOCK   | 114182 | 203984 | 30    | 40301            | 12.000         | 12.000   | SR       |
| 5626         | STOCK   | 114182 | 204889 | 30    | 41101            | 12.000         | 12.000   | SR       |
| 56 <b>26</b> | STOCK   | 114182 | 205576 | 30    | 41701            | 12.000         | 12.000   | SR       |
| 5626         | STOCK   | 114182 | 206274 | 30    | 42401            | 12.000         | 12.000   | SR       |
| 5626         | STOCK   | 114182 | 207192 | 30    | 50101            | 6.000          | 6.000    | SR       |
| 5626         | STOCK   | 114182 | 209021 | 30    | 51601            | 30.000         | 30.000   | SR +     |

| PO0153.  | .05    | <u>l</u> |        |       | Order<br>ver Det | Inquiry<br>ail | 17:36:30 | 11/15/01 |
|----------|--------|----------|--------|-------|------------------|----------------|----------|----------|
| Produc   | t 1014 | 1770     | GEN S  | DLDER | BAR SN           | 63             |          |          |
| Vendor I | Disp   | P.O.     | Rec No | Lin   | Date             | Received       | Billed   | Whse     |
| 5626 9   | •      | 114182   | 209842 | 40    | 52301            | 120.000        | .000     | SR       |
| 5626 9   | STOCK  | 114182   | 213884 | 40    | 70301            | 24.000         | 24.000   | SR       |
| 5626 9   | STOCK  | 114182   | 213967 | 40    | 70301            | 180.000        | .000     | SR       |
| 5626 9   | STOCK  | 114182   | 214010 | 40    | 70501            | 12.000         | .000     | SR       |
| 5626 9   | STOCK  | 114182   | 215572 | 40    | 71801            | 84.000         | 84.000   | SR       |
| 5626 9   | STOCK  | 114182   | 217465 | 40    | 80301            | 60.000         | 60.000   | SR       |
| 5626 8   | STOCK  | 114182   | 218197 | 40    | 81001            | 84.000         | 84.000   | SR       |
| 5626 5   | STOCK  | 114182   | 218424 | 40    | 81401            | 96.000         | 96.000   | SR       |
| 5626 9   | STOCK  | 114182   | 219150 | 40    | 82101            | 48.000         | 48.000   | SR       |
| 5626 9   | STOCK  | 114182   | 219880 | 40    | 82801            | 48.000         | 48.000   | SR       |
| 5626 9   | STOCK  | 114182   | 220696 | 40    | 90501            | 36.000         | 36.000   | SR       |
| 5626 S   | STOCK  | 114182   | 221308 | 40    | 91101            | 36.000         | 36.000   | SR       |
| 5626 9   | STOCK  | 114182   | 221962 | 40    | 91801            | 24.000         | 24.000   | SR       |
| 5626 S   | STOCK  | 114182   | 222645 | 40    | 92501            | 24.000         | 24.000   | SR +     |
|          |        |          |        |       |                  |                |          |          |

F7=Fold

F3=Exit

| PO0153 | PO0153.05 1 Purchase Order Inquiry<br>Receiver Detail |        |        |      |          |          | 17:36:30 | 11/15/01 |
|--------|-------------------------------------------------------|--------|--------|------|----------|----------|----------|----------|
| Produ  | ct 101                                                | 4770   | GEN SC | LDEF | R BAR SN | 63       |          |          |
| Vendor | Disp                                                  | P.O.   | Rec No | Lin  | Date     | Received | Billed   | Whse     |
| 5626   | STOCK                                                 | 114182 | 223360 | 40   | 100201   | 48.000   | 48.000   | SR       |
| 5626   | STOCK                                                 | 114182 | 224261 | 40   | 100901   | 48.000   | 48.000   | SR       |
| 5626   | STOCK                                                 | 114182 | 225096 | 40   | 101601   | 36.000   | 36.000   | SR       |
| 5626   | STOCK                                                 | 114182 | 225711 | 40   | 102301   | 12.000   | 12.000   | SR       |
| 5626   | STOCK                                                 | 114182 | 226554 | 40   | 103001   | 48.000   | 48.000   | SR       |
| 5626   | STOCK                                                 | 114182 | 228330 | 40   | 111501   | 24.000   | .000     | SR       |

| PO0153.05 1<br>* HISTORY *                                                                                                                                                                 |                                                                                                 |                                                                                                                                  |                                                     | e Order I<br>iver Deta                                                                                             | 13:42:42                                                                          | 12/03/01                                                                                                        |                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Product 12242                                                                                                                                                                              | 256                                                                                             | GEN FL                                                                                                                           | UX                                                  | (NO CLEAN                                                                                                          | )                                                                                 |                                                                                                                 |                                                                  |
| 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK 7622 STOCK | 95279<br>100444<br>100444<br>100473<br>100473<br>101367<br>101411<br>103026<br>103026<br>104630 | Rec No 1<br>105348<br>107114<br>107717<br>107917<br>108087<br>109586<br>113271<br>115513<br>116940<br>120808<br>123508<br>124108 | Lin<br>11<br>10<br>10<br>30<br>10<br>10<br>10<br>10 | Date<br>42197<br>51597<br>53097<br>60397<br>60597<br>63097<br>82097<br>92297<br>100797<br>121997<br>20398<br>21398 | Received 6.000 10.000 20.000 1.000 4.000 10.000 10.000 10.000 10.000 11.000 4.000 | Billed<br>6.000<br>10.000<br>20.000<br>1.000<br>4.000<br>10.000<br>10.000<br>10.000<br>5.000<br>11.000<br>4.000 | Whse<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR |
|                                                                                                                                                                                            |                                                                                                 | 125001<br>127357                                                                                                                 | 10<br>10                                            | 22698<br>40298                                                                                                     | 5.000<br>7.000                                                                    | 5.000<br>7.000                                                                                                  | SR<br>SR +                                                       |

F7=Fold

F3=Exit

| PO0153.05<br>* HISTORY * | 1              | Purchas<br>Rece | 13:42:42  | 12/03/01 |        |      |
|--------------------------|----------------|-----------------|-----------|----------|--------|------|
| Product 122              | 4256           | GEN FLUX        | (NO CLEAN | 1)       |        |      |
| Vendor Disp              | P.O.           | Rec No Lin      | Date      | Received | Billed | Whse |
| 7622 STOCK               | 1062 <b>94</b> | 128632 10       | 41798     | 3.000    | 3.000  | SR   |
| 7622 STOCK               | 106436         | 130223 10       | 51598     | 7.000    | 7.000  | SR   |
| 7622 STOCK               | 90201          | 131950 10       | 61998     | 10.000   | 10.000 | SR   |
| 7622 STOCK               | 1073 <b>64</b> | 135235 10       | 81298     | 10.000   | 10.000 | SR   |
| 7622 STOCK               | 1080 <b>90</b> | 138709 10       | 100998    | 10.000   | 10.000 | SR   |
| 7622 STOCK               | 108416         | 140203 10       | 110698    | 10.000   | 10.000 | SR   |
|                          |                |                 |           |          |        |      |

| PO0153.05 1      | Purchase Order Inq<br>Receiver Detail | uiry     | 14:29:08 | 12/03/01 |
|------------------|---------------------------------------|----------|----------|----------|
| Product 1224256  | GEN FLUX (NO CLEAN)                   |          |          |          |
| Vendor Disp P.O  | . Rec No Lin Date                     | Received | Billed   | Whse     |
| 7622 STOCK 10893 | 7 143758 10 11899                     | 7.000    | 7.000    | SR       |
| 7622 STOCK 10893 | 7 145148 10 21599                     | 28.000   | 25.000   | SR       |
| 7622 STOCK 10949 | 9 145212 10 21799                     | 7.000    | 7.000    | SR       |
| 7622 STOCK 10949 | 9 145716 10 22599                     | 1.000    | 1.000    | SR       |
| 7622 STOCK 10949 | 9 146626 10 31099                     | 2.000    | 2.000    | SR       |
| 7622 STOCK 10949 | 9 147364 10 32399                     | 3.000    | 3.000    | SR       |
| 7622 STOCK 10949 | 9 147847 10 33099                     | 2.000    | 2.000    | SR       |
| 7622 STOCK 10949 | 9 148276 10 40699                     | 1.000    | 1.000    | SR       |
| 7622 STOCK 10949 | 9 149116 10 42199                     | 3.000    | 3.000    | SR       |
| 7622 STOCK 10949 | 9 149483 10 42799                     | 1.000    | 1.000    | SR       |
| 7622 STOCK 10949 | 9 150443 10 51099                     | 2.000    | 2.000    | SR       |
| 7622 STOCK 10949 | 9 150521 10 51199                     | 1.000    | 1.000    | SR       |
| 7622 STOCK 10949 | 9 151177 10 52599                     | 1.000    | 1.000    | SR       |
| 7622 STOCK 10949 | 9 151273 10 52699                     | 1.000    | 1.000    | SR +     |
|                  |                                       |          |          |          |
|                  |                                       |          |          |          |

F7=Fold

F3=Exit

| P0015  | 3.95    | 1      |         |       | Order Deta | • •      | 17:37:06 | 11/15/01 |
|--------|---------|--------|---------|-------|------------|----------|----------|----------|
| Prod   | uct 122 | 4256   | GEN F   | LUX ( | NO CLEAD   | 1)       |          |          |
|        |         |        | Dog No. | T 4   | Date       | Received | Billed   | Whse     |
| Vendor | -       | P.O.   | Rec No  |       |            |          |          |          |
| 7622   | STOCK   | 109499 | 151434  | 10    | 52799      | 1.000    | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 151932  | 10    | 60899      | 2.000    | 2.000    | SR       |
| 7622   | STOCK   | 109499 | 152571  | 10    | 62299      | 3.000    | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 153090  | 10    | 63099      | 1.000    | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 154387  | 10    | 72299      | 4.000    | 4.000    | SR       |
| 7622   | STOCK   | 109499 | 154814  | 10    | 72799      | 1.000    | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 154823  | 10    | 72899      | 1.000    | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 154824  | 10    | 72899      | 1.000    | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 155334  | 10    | 80499      | 1.000    | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 156452  | 10    | 81899      | 3.000    | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 157207  | 10    | 82799      | 1.000    | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 157524  | 10    | 90199      | 3.000    | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 158404  | 10    | 91499      | 1.000    | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 158915  | 10    | 92299      | 2.000    | 2.000    | SR +     |

F3=Exit

F7=Fold

F12=Previous

5 gallon Pails of Flax

| PO0153.05 1  |        |        |     | e Order<br>iver Det | Inquiry<br>ail | 17:37:06 | 11/15/01 |
|--------------|--------|--------|-----|---------------------|----------------|----------|----------|
| Product 1224 | 256    | GEN FI | ιΩΧ | (NO CLEA            | AN)            |          |          |
| Vendor Disp  | P.O.   | Rec No | Lin | Date                | Received       | Billed   | Whse     |
| 7622 STOCK   | 109499 | 159315 | 10  | 92999               | 1.000          | 1.000    | SR       |
| 7622 STOCK   | 109499 | 160237 | 10  | 101299              | 3.000          | 3.000    | SR       |
| 7622 STOCK   | 109499 | 160634 | 10  | 101999              | 1.000          | 1.000    | SR       |
| 7622 STOCK   | 109499 | 161083 | 10  | 102699              | 2.000          | 2.000    | SR       |
| 7622 STOCK   | 109499 | 161951 | 10  | 111099              | 3.000          | 3.000    | SR       |
| 7622 STOCK   | 109499 | 162495 | 10  | 111899              | 1.000          | 1.000    | SR       |
| 7622 STOCK   | 109499 | 163270 | 10  | 120199              | 2.000          | 2.000    | SR       |
| 7622 STOCK   | 109499 | 164071 | 10  | 121599              | 4.000          | 4.000    | SR       |
| 7622 STOCK   | 109499 | 164507 | 10  | 122299              | 1.000          | 1.000    | SR       |
| 7622 STOCK   | 109499 | 165673 | 10  | 11100               | 2.000          | 2.000    | SR       |
| 7622 STOCK   | 109499 | 166567 | 10  | 12500               | 3.000          | 3.000    | SR       |
| 7622 STOCK   | 109499 | 166571 | 10  | 12600               | 1.000          | 1.000    | SR       |
| 7622 STOCK   | 109499 | 167625 | 10  | 20900               | 4.000          | 4.000    | SR       |
| 7622 STOCK   | 109499 | 168015 | 10  | 21500               | 1.000          | 1.000    | SR +     |
|              |        |        |     |                     |                |          |          |

F12=Previous

F7=Fold

F3=Exit

| PO0153.05 1   |        |          |       | Order Inquer Detail | uiry     | 17:37:06 | 11/15/01 |
|---------------|--------|----------|-------|---------------------|----------|----------|----------|
| Product 12242 | 56     | GEN FL   | JX (N | O CLEAN)            |          |          |          |
| Vendor Disp   | P.O. 1 | Rec No I | Lin   | Date                | Received | Billed   | Whse     |
| 7622 STOCK 1  | 09499  | 168625   | 10    | 22400               | 2.000    | 2.000    | SR       |
| 7622 STOCK 1  | 09499  | 169054   | 10    | 22900               | 1.000    | 1.000    | SR       |
| 7622 STOCK 1  | 09499  | 171336   | 10    | 32900               | 6.000    | 6.000    | SR       |
| 7622 STOCK 1  | 09499  | 173087   | 10    | 41800               | 2.000    | 2.000    | SR       |
| 7622 STOCK 1  | 09499  | 173115   | 10    | 41800               | 4.000    | 4.000    | SR       |
| 7622 STOCK 1  | 09499  | 173784   | 10    | 42600               | 1.000    | 1.000    | SR       |
| 7622 STOCK 1  | 09499  | 175323   | 10    | 51100               | 3.000    | 3.000    | SR       |
| 7622 STOCK 1  | 09499  | 176729   | 10    | 52500               | 4.000    | 4.000    | SR       |
| 7622 STOCK 1  | 09499  | 177242   | 10    | 60500               | 3.000    | 3.000    | SR       |
| 7622 STOCK 1  | 09499  | 177585   | 10    | 61400               | 2.000    | 2.000    | SR       |
| 7622 STOCK 1  | 09499  | 179051   | 10    | 63000               | 1.000    | 1.000    | SR       |
| 7622 STOCK 1  | 09499  | 180319   | 10    | 71800               | 4.000    | 4.000    | SR       |
| 7622 STOCK 1  | 09499  | 180973   | 10    | 72600               | 2.000    | 2.000    | SR       |
| 7622 STOCK 1  | 09499  | L82744   | 10    | 81600               | 6.000    | 6.000    | SR +     |
|               |        |          |       |                     |          |          |          |
|               |        |          |       |                     |          |          |          |

F7=Fold

F3=Exit

| PO0153 | 3.05    | 1      |        |     | e Order<br>iver De | Inquiry<br>tail | 17:37:06 | 11/15/01 |
|--------|---------|--------|--------|-----|--------------------|-----------------|----------|----------|
| Produ  | act 122 | 4256   | GEN F  | LUX | (NO CLE            | AN)             |          |          |
| Vendor | Disp    | P.O.   | Rec No | Lin | Date               | Received        | Billed   | Whse     |
| 7622   | STOCK   | 109499 | 183220 | 10  | 82200              | 2.000           | 2.000    | SR       |
| 7622   | STOCK   | 109499 | 185050 | 10  | 91200              | 3.000           | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 185699 | 10  | 91900              | 3.000           | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 186346 | 10  | 92700              | 1.000           | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 187669 | 10  | 101000             | 3.000           | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 188245 | 10  | 101700             | 2.000           | 2.000    | ŚR       |
| 7622   | STOCK   | 109499 | 188880 | 10  | 103100             | 3.000           | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 190379 | 10  | 111500             | 3.000           | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 190991 | 10  | 112200             | 1.000           | 1.000    | SR       |
| 7622   | STOCK   | 109499 | 191329 | 10  | 112800             | 2.000           | 2.000    | SR       |
| 7622   | STOCK   | 109499 | 192704 | 10  | 121400             | 3.000           | 3.000    | SR       |
| 7622   | STOCK   | 109499 | 195112 | 10  | 11001              | 7.000           | 7.000    | SR       |
| 7622   | STOCK   | 109499 | 195907 | 10  | 11701              | 2.000           | 2.000    | SR       |
| 7622   | STOCK   | 109499 | 197356 | 10  | 13101              | 3.000           | 3.000    | SR +     |
|        |         |        |        |     |                    |                 |          |          |

| PO0153.05                                                                                                                                   | 1                                                                                                                                |                                                                                                          | ase Order<br>ceiver Det                                                                          | • •                                                                                                 | 17:37:06                                                                                 | 11/15/01                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------|
| Product 1                                                                                                                                   | 224256                                                                                                                           | GEN FLUX                                                                                                 | X (NO CLEA                                                                                       | AN)                                                                                                 |                                                                                          |                                             |
| Vendor Disp<br>7622 STOC<br>7622 STOC<br>2664 STOC<br>296 STOC<br>296 STOC<br>7622 STOC<br>7622 STOC<br>2664 STOC<br>2664 STOC<br>2664 STOC | K 109499<br>K 109499<br>K 118774<br>K 118774<br>K 118778<br>K 118774<br>K 109499<br>K 109499<br>K 109499<br>K 119037<br>K 119037 | 201805 1<br>202430 1<br>202431 2<br>202541 1<br>202701 2<br>202937 1<br>203416 1<br>206435 2<br>208523 2 | n Date 10 21401 10 31401 10 32001 10 32101 10 32201 10 32301 10 32901 20 42501 20 51401 20 52401 | Received<br>15.000<br>5.000<br>1.000<br>1.000<br>9.000<br>2.000<br>5.000<br>1.000<br>2.000<br>3.000 | Billed<br>15.000<br>5.000<br>1.000<br>1.000<br>2.000<br>5.000<br>1.000<br>2.000<br>3.000 | Whse SR SR SR SR SR SR SR SR SR SR SR SR SR |
| 2664 STOC<br>2664 STOC                                                                                                                      | K 119037                                                                                                                         | 210780 2                                                                                                 | 20 60401<br>20 60601                                                                             | 1.000                                                                                               | 1.000                                                                                    | SR<br>SR +                                  |

| PO0153          | 3.05  | 1      |        |         | Order<br>ver Det | Inquiry<br>ail | 17:37:06 | 11/15/01 |
|-----------------|-------|--------|--------|---------|------------------|----------------|----------|----------|
| Product 1224256 |       | GEN FI | LUX (  | NO CLEA |                  |                |          |          |
| Vendor          | Disp  | P.O.   | Rec No | Lin     | Date             | Received       | Billed   | Whse     |
| 2664            | STOCK | 119037 | 211287 | 20      | 60701            | 5.000          | 5.000    | SR       |
| 2664            | STOCK | 119037 | 211986 | 20      | 61401            | 1.000          | 1.000    | SR       |
| 2664            | STOCK | 119037 | 212415 | 20      | 61901            | 2.000          | 2.000    | SR       |
| 2664            | STOCK | 119037 | 212422 | 20      | 61901            | 3.000          | 3.000    | SR       |
| 2664            | STOCK | 119037 | 213545 | 20      | 62801            | 2.000          | 2.000    | SR       |
| 2664            | STOCK | 119037 | 213902 | 20      | 70301            | 2.000          | 2.000    | SR       |
| 2664            | STOCK | 119037 | 214147 | 20      | 70601            | 1.000          | .000     | SR       |
| 2664            | STOCK | 119037 | 215410 | 20      | 71701            | 2.000          | 2.000    | SR       |
| 2664            | STOCK | 119037 | 216527 | 20      | 72601            | 6.000          | 6.000    | SR       |
| 2664            | STOCK | 119037 | 218414 | 20      | 81401            | 2.000          | 2.000    | SR       |
| 2664            | STOCK | 119037 | 219153 | 20      | 82101            | 2.000          | 2.000    | SR       |
| 2664            | STOCK | 119037 | 219969 | 20      | 82901            | 2.000          | 2.000    | SR       |
| 2664            | STOCK | 119037 | 221964 | 20      | 91801            | 1.000          | 1.000    | SR       |
| 2664            | STOCK | 119037 | 223052 | 20      | 92801            | 2.000          | 2.000    | SR +     |
|                 |       |        |        |         |                  |                |          |          |

F7=Fold

F3=Exit

| PO0153.05   | 1      |          | ase Order 1<br>ceiver Deta | 17:37:06 | 11/15/0 |      |
|-------------|--------|----------|----------------------------|----------|---------|------|
| Product 122 | 4256   | GEN FLU  | X (NO CLEAN                | 1)       |         |      |
| Vendor Disp | P.O.   | Rec No L | in Date                    | Received | Billed  | Whse |
| 2664 STOCK  | 119037 | 224256   | 20 100901                  | 2.000    | 2.000   | SR   |
| 2664 STOCK  | 119037 | 225235   | 20 101701                  | 1.000    | 1.000   | SR   |
| 2664 STOCK  | 119037 | 225236   | 20 101701                  | 2.000    | 2.000   | SR   |
| 2664 STOCK  | 119037 | 225681 2 | 20 102301                  | 2.000    | 2.000   | SR   |
| 2664 STOCK  | 119037 | 226505 2 | 20 103001                  | 2.000    | 2.000   | SR   |
| 2664 STOCK  | 119037 | 226507 2 | 20 103001                  | 1.000    | 1.000   | SR   |
| 2664 STOCK  | 119037 | 227294 2 | 20 110601                  | 1.000    | .000    | SR   |
| 2664 INSP   | 119037 | 228214 2 | 20 111401                  | 1.000    | .000    | IN   |
|             |        |          |                            |          |         |      |

| PO0153.05<br>* HISTORY | 1         |            | order I<br>ver Deta | 13:43:09  | 12/03/01 |      |
|------------------------|-----------|------------|---------------------|-----------|----------|------|
| Product 1              | 1261583   | GEN THINNE | R CONFOR            | MAL (801) |          |      |
| Vendor Disp            | P.O.      | Rec No Lin | Date                | Received  | Billed   | Whse |
| 3812 STO               | CK 112916 | 168507 20  | 22300               | 6.000     | 6.000    | SR   |
| 3812 STO               | CK 112980 | 168865 20  | 22500               | 1.000     | 1.000    | SR   |
| 3812 STO               | CK 112980 | 178931 20  | 63000               | 5.000     | 5.000    | SR   |
| 3812 STO               | CK 112980 | 181332 20  | 73100               | 1.000     | 1.000    | SR   |

| PO015                                                       | 3.05                                                                          | 1                                                                                                                  |                                                                                                                                |                                                                 | e Order<br>iver De                                                                                        | Inquiry<br>tail                                                | 17:37:33                                                          | 11/15/01                                                         |
|-------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|
| Product 1261583                                             |                                                                               | GEN T                                                                                                              | HINN                                                                                                                           | ER CONFO                                                        |                                                                                                           |                                                                |                                                                   |                                                                  |
| 2626<br>296<br>2626<br>2626<br>2626<br>2626<br>2626<br>2626 | STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK | P.O.<br>114204<br>114204<br>116726<br>114204<br>114204<br>114204<br>114204<br>114204<br>114204<br>114204<br>114204 | Rec No<br>185003<br>188599<br>188745<br>195888<br>196106<br>199292<br>204803<br>207814<br>213067<br>214693<br>215479<br>218470 | Lin<br>20<br>20<br>10<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | Date<br>91100<br>102400<br>102600<br>11701<br>11801<br>22001<br>41001<br>50701<br>62501<br>71101<br>81401 | Received 1.000 1.000 2.000 1.000 5.000 2.000 2.000 1.000 1.000 | Billed 1.000 1.000 .000 1.000 1.000 2.000 2.000 2.000 1.000 1.000 | Whse<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR |
| 2626                                                        |                                                                               | 114204<br>114204                                                                                                   | 219926<br>220651                                                                                                               | 20<br>20                                                        | 82801<br>90501                                                                                            | 1.000                                                          | 1.000                                                             | SR<br>SR +                                                       |

F3=Exit

F7=Fold

F12=Previous

5 gallon Pails of Conformal Coat My Thomper.

| PO0153.05   | 1      |            | e Order :<br>iver Deta | •        | 17:37:33 | 11/15/01 |
|-------------|--------|------------|------------------------|----------|----------|----------|
| Product 126 | 1583   | GEN THINN  | ER CONFO               |          |          |          |
| Vendor Disp | P.O.   | Rec No Lin | Date                   | Received | Billed   | Whse     |
| 2626 STOCK  | 114204 | 224007 20  | 100501                 | 1.000    | 1.000    | SR       |
| 2626 STOCK  | 114204 | 225240 20  | 101701                 | 1.000    | 1.000    | SR       |
| 2626 STOCK  | 114204 | 225266 20  | 101701                 | 1.000    | 1.000    | SR       |
| 2626 STOCK  | 114204 | 227110 20  | 110201                 | 1.000    | 1.000    | SR       |
| 2626 INSP   | 114204 | 228250 20  | 111401                 | 1.000    | .000     | IN       |

F3=Exit

F7=Fold

| PO0153.05<br>* HISTORY * | 1              |        |       | e Order<br>iver Det | 13:43:34 | 12/03/01 |      |
|--------------------------|----------------|--------|-------|---------------------|----------|----------|------|
| Product 122              | 4267           | GEN T  | HINNE | ER (NO C            |          |          |      |
| Vendor Disp              | P.O.           | Rec No | Lin   | Date                | Received | Billed   | Whse |
| 7622 STOCK               | 95279          | 105334 | 20    | 42197               | 20.000   | 20.000   | SR   |
| 7622 STOCK               | 100464         | 107695 | 10    | 529 <b>97</b>       | 10.000   | 10.000   | SR   |
| 7622 STOCK               | 100464         | 108843 | 10    | 61797               | 10.000   | 10.000   | SR   |
| 7622 STOCK               | 101362         | 109518 | 10    | 62797               | 1.000    | 1.000    | SR   |
| 7622 STOCK               | 101362         | 109619 | 10    | 63097               | 9.000    | 9.000    | SR   |
| 7622 STOCK               | 101411         | 113272 | 20    | 82097               | 10.000   | 10.000   | SR   |
| 7622 STOCK               | 1032 <b>01</b> | 118169 | 10    | 102297              | 5.000    | 5.000    | SR   |
| 7622 STOCK               | 103963         | 119424 | 10    | 111997              | 5.000    | 5.000    | SR   |
| 7622 STOCK               | 104573         | 121506 | 10    | 10598               | 5.000    | 5.000    | SR   |
| 7622 STOCK               | 104573         | 121747 | 10    | 10798               | 6.000    | 6.000    | SR   |
| 7622 STOCK               | 105965         | 126917 | 10    | 32698               | 4.000    | 4.000    | SR   |
|                          |                |        |       |                     |          |          |      |

41598

52898

73198

7.000

11.000

5.000

7.000

11.000

5.000

SR

SR

SR +

F3=Exit F7=Fold F12=Previous

10

10

128293

134451

130839 10

7622 STOCK

7622 STOCK

7622 STOCK

105965

976**94** 

107323

| PO0153.05<br>* HISTORY |                   |            | e Order I<br>iver Deta | 13:43:34 | 12/03/01 |      |
|------------------------|-------------------|------------|------------------------|----------|----------|------|
| Product                | 1224267           | GEN THINN  | ER (NO CI              | LEAN)    |          |      |
| Vendor Dis             | p P.O.            | Rec No Lin | Date                   | Received | Billed   | Whse |
| 7622 STO               | CK 10780 <b>4</b> | 137216 10  | 91598                  | 5.000    | 5.000    | SR   |
| 7622 STO               | CK 108109         | 138926 10  | 101498                 | 2.000    | 2.000    | SR   |
| 7622 STO               | CK 108109         | 139340 10  | 102298                 | 2.000    | 2.000    | SR   |
| 7622 STO               | CK 1081 <b>09</b> | 139903 10  | 110398                 | 6.000    | 6.000    | SR   |

| PO0153.05 | 1 | Purchase Order Inquiry |
|-----------|---|------------------------|
|           |   | Receiver Detail        |

17:37:55 11/15/01

| Product 1224267 |       |        | GEN  | GEN THINNER (NO CLEAN) |        |          |        |      |   |  |
|-----------------|-------|--------|------|------------------------|--------|----------|--------|------|---|--|
| Vendor          | Disp  | P.O.   | Rec  | No Lin                 | Date   | Received | Billed | Whse | : |  |
| 7622            | STOCK | 108817 | 1425 | 81 10                  | 122298 | 5.000    | 5.000  | SR   |   |  |
| 7622            | STOCK | 108817 | 1443 | 44 10                  | 12899  | 20.000   | .000   | SR   |   |  |
| 7622            | STOCK | 108817 | 1444 | 61 20                  | 12999  | 4.000    | 4.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1459 | 13 10                  | 30199  | 1.000    | 1.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1468 | 01 10                  | 31299  | 5.000    | 5.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1473 | 63 10                  | 32399  | 1.000    | 1.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1482 | 75 10                  | 40699  | 2.000    | 2.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1487 | 62 10                  | 41499  | 1.000    | 1.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1494 | 82 10                  | 42799  | 2.000    | 2.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1505 | 22 10                  | 51199  | 1.000    | 1.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1512 | 74 10                  | 52699  | 2.000    | 2.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1519 | 33 10                  | 60899  | 2.000    | 2.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1522 | 79 10                  | 61599  | 1.000    | 1.000  | SR   |   |  |
| 7622            | STOCK | 109510 | 1530 | 91 10                  | 63099  | 2.000    | 2.000  | SR   | + |  |
|                 |       |        |      |                        |        |          |        |      |   |  |

F3=Exit

F7=Fold

F12=Previous

5 gallen pails of Plant Thinner

| PO0153.05 1       | Purchase Order Inquiry<br>Receiver Detail | 17:37:55 11/15/01 |
|-------------------|-------------------------------------------|-------------------|
| Product 1224267   | GEN THINNER (NO CLEAN)                    |                   |
| Vendor Disp P.O.  | Rec No Lin Date Received                  | Billed Whse       |
| 7622 STOCK 109510 | 154388 10 72299 2.000                     | 2.000 SR          |
| 7622 STOCK 109510 | 154815 10 72799 1.000                     | 1.000 SR          |
| 7622 STOCK 109510 | 155335 10 80499 1.000                     | 1.000 SR          |
| 7622 STOCK 109510 | 156453 10 81899 2.000                     | 2.000 SR          |
| 7622 STOCK 109510 | 157523 10 90199 2.000                     | 2.000 SR          |
| 7622 STOCK 109510 | 158405 10 91499 2.000                     | 2.000 SR          |
| 7622 STOCK 109510 | 158916 10 92299 1.000                     | 1.000 SR          |
| 7622 STOCK 109510 | 160236 10 101299 2.000                    | 2.000 SR          |
| 7622 STOCK 109510 | 160404 10 101499 1.000                    | 1.000 SR          |
| 7622 STOCK 109510 | 160633 10 101999 1.000                    | 1.000 SR          |
| 7622 STOCK 109510 | 161952 10 111099 1.000                    | 1.000 SR          |
| 7622 STOCK 109510 | 162494 10 111899 2.000                    | 2.000 SR          |
| 7622 STOCK 109510 | 162838 10 112399 2.000                    | 2.000 SR          |
| 7622 STOCK 109510 | 164070 10 121599 2.000                    | 2.000 SR +        |
|                   |                                           |                   |
|                   |                                           |                   |
|                   |                                           |                   |

F3=Exit

F12=Previous

| PO0153.05 1   |              | chase<br>Recei | 17:37:55 | 11/15/01 |        |      |  |
|---------------|--------------|----------------|----------|----------|--------|------|--|
| Product 12242 | 67 GEN T     | HINNE          | ER (NO C | LEAN)    |        |      |  |
| Vendor Disp   | P.O. Rec No  | Lin            | Date     | Received | Billed | Whse |  |
| 7622 STOCK 1  | 09510 164508 | 10             | 122299   | 1.000    | 1.000  | SR   |  |
| 7622 STOCK 1  | 09510 165674 | 10             | 11100    | 2.000    | 2.000  | SR   |  |
| 7622 STOCK 1  | 09510 166122 | 10             | 11800    | 1.000    | 1.000  | SR   |  |
| 7622 STOCK 1  | 09510 167626 | 10             | 20900    | 2.000    | 2.000  | SR   |  |
| 7622 STOCK 1  | 09510 168016 | 10             | 21500    | 1.000    | 1.000  | SR   |  |
| 7622 STOCK 1  | 09510 169055 | 10             | 22900    | 1.000    | 1.000  | SR   |  |
| 7622 STOCK 1  | 09510 170163 | 10             | 31400    | 2.000    | 2.000  | SR   |  |
| 7622 STOCK 1  | 09510 170669 | 10             | 32100    | 1.000    | 1.000  | SR   |  |
| 7622 STOCK 1  | 09510 172447 | 10             | 41200    | 2.000    | 2.000  | SR   |  |
| 7622 STOCK 1  | 09510 173783 | 10             | 42600    | 1.000    | 1.000  | SR   |  |
| 7622 STOCK 1  | 09510 175324 | 10             | 51100    | 2.000    | 2.000  | SR   |  |
| 7622 STOCK 1  | 09510 176728 | 10             | 52500    | 2.000    | 2.000  | SR   |  |
| 7622 STOCK 1  | 09510 177584 | 10             | 61400    | 3.000    | 3.000  | SR   |  |
| 7622 STOCK 1  | 09510 179050 | 10             | 63000    | 2.000    | 2.000  | SR + |  |

F12=Previous

F7=Fold

F3=Exit

| PO0153.05 1    |             |        | der Inquiry<br>Detail | 17:37    | :55 11/15/01 |
|----------------|-------------|--------|-----------------------|----------|--------------|
| Product 122426 | 7 GEN TH    | INNER  | NO CLEAN)             |          |              |
| Vendor Disp    | P.O. Rec No | Lin Da | ite Rece              | eived Bi | lled Whse    |
| 7622 STOCK 109 | 9510 180972 | 10 72  | 600 2                 | 2.000 2  | .000 SR      |
| 7622 STOCK 109 | 9510 182745 | 10 81  | .600                  | 4.000 4  | .000 SR      |
| 7622 STOCK 109 | 9510 183219 | 10 82  | 200                   | 1.000 1  | .000 SR      |
| 7622 STOCK 109 | 9510 185051 | 10 91  | .200                  | 4.000 3  | .000 SR      |
| 7622 STOCK 109 | 9510 186345 | 10 92  | 700                   | 1.000 1  | .000 SR      |
| 7622 STOCK 109 | 9510 187668 | 10 101 | .000                  | 2.000 2  | .000 SR      |
| 7622 STOCK 109 | 9510 188244 | 10 101 | 700                   | 1.000 1  | .000 SR      |
| 7622 STOCK 109 | 9510 188879 | 10 103 | 100                   | 3.000 3  | .000 SR      |
| 7622 STOCK 109 | 9510 190990 | 10 112 | 200                   | 2.000 2  | .000 SR      |
| 7622 STOCK 109 | 9510 191328 | 10 112 | 800                   | 1.000 1  | .000 SR      |
| 7622 STOCK 109 | 9510 193615 | 10 122 | 700                   | 2.000 2  | .000 SR      |
| 7622 STOCK 109 | 9510 195908 | 10 11  | 701                   | 2.000 2  | .000 SR      |
| 7622 STOCK 109 | 9510 196612 | 10 12  | 301                   | 1.000 1  | .000 SR      |
| 7622 STOCK 109 | 9510 198727 | 10 21  | 401 10                | 0.000 10 | .000 SR +    |

F3=Exit

F7=Fold F12=Previous

| PO0153.05 | 1 | Purchase Order Inquiry | 17:37:55 | 11/15/01 |
|-----------|---|------------------------|----------|----------|
|           |   | Receiver Detail        |          |          |

GEN THINNER (NO CLEAN) Product 1224267 Vendor Disp Received Billed Whse P.O. Rec No Lin Date 2664 STOCK 118939 2664 STOCK 118939 204501 10 40901 205307 10 41601 2.000 2.000 SR 2.000 2.000 SR 2664 STOCK 119037 206828 10 42701 1.000 1.000 SR 208295 10 51001 2.000 2.000 2664 STOCK 119037 SR 2664 STOCK 119037 2664 STOCK 119037 208522 10 210187 10 51401 2.000 2.000 SR 1.000 1.000 52501 SR 210617 10 60101 2664 STOCK 119037 1.000 1.000 2.000 210622 10 60101 2.000 SR 2664 STOCK 119037 210939 10 60501 212315 10 61801 2664 STOCK 119037 2664 STOCK 119037 2.000 2.000 SR 2.000 2.000 SR 2664 STOCK 119037 213901 10 70301 2.000 2.000 SR 214014 10 70501 215409 10 71701 216321 10 72501 3.000 2664 STOCK 119037 2664 STOCK 119037 2664 STOCK 119037 SR 3.000 2.000 2.000 SR 2.000 SR + 2.000

| PO019  | 33.05    | 1      |        |       | e Order<br>iver Det |          | 17:37:55 | 11/15/01 |
|--------|----------|--------|--------|-------|---------------------|----------|----------|----------|
| Prod   | luct 122 | 4267   | GEN TI | HINNI | ER (NO C            | LEAN)    |          |          |
| Vendor | Disp     | P.O.   | Rec No | Lin   | Date                | Received | Billed   | Whse     |
| 2664   | STOCK    | 119037 | 216974 | 10    | 73101               | 2.000    | 2.000    | SR       |
| 2664   | STOCK    | 119037 | 217719 | 10    | 80701               | 2.000    | 2.000    | SR       |
| 2664   | STOCK    | 119037 | 219334 | 10    | 82201               | 2.000    | 2.000    | SR       |
| 2664   | STOCK    | 119037 | 219430 | 10    | 82301               | 2.000    | 2.000    | SR       |
| 2664   | STOCK    | 119037 | 219968 | 10    | 82901               | 2.000    | 2.000    | SR       |
| 2664   | STOCK    | 119037 | 222740 | 10    | 92601               | 2.000    | 2.000    | SR       |
| 2664   | STOCK    | 119037 | 222741 | 10    | 92601               | 1.000    | 1.000    | SR       |
| 2664   | STOCK    | 119037 | 223528 | 10    | 100301              | 2.000    | 2.000    | SR       |
| 2664   | STOCK    | 119037 | 224257 | 10    | 100901              | 1.000    | 1.000    | SR       |
| 2664   | STOCK    | 119037 | 225237 | 10    | 101701              | 2.000    | 2.000    | SR       |
| 2664   | STOCK    | 119037 | 226506 | 10    | 103001              | 2.000    | .000     | SR       |
| 2664   | STOCK    | 119037 | 227293 | 10    | 110601              | 1.000    | .000     | SR       |
|        |          |        |        |       |                     |          |          |          |

| PO0153.  | RY * | 268           | ;      | Purchase Order Inquiry<br>Receiver Detail<br>GEN THINNER CONFORMAL (R4K183) |        |          |        | 12/03/01 |
|----------|------|---------------|--------|-----------------------------------------------------------------------------|--------|----------|--------|----------|
| Vendor D | isp  | P.O.          | Rec No | Lin                                                                         | Date   | Received | Billed | Whse     |
| 6626 S'  | -    | 20248         | 6100   | 10                                                                          | 70692  | 4.000    | .000   | SR       |
| 6626 S'  | TOCK | 20248         | 7172   | 10                                                                          | 80492  | 4.000    | .000   | SR       |
| 6626 S'  | TOCK | 20248         | 8439   | 10                                                                          | 90192  | 4.000    | .000   | SR       |
| 6626 S   | TOCK | 20248         | 9735   | 10                                                                          | 100192 | 4.000    | .000   | SR       |
| 6626 S'  | TOCK | 69394         | 14152  | 10                                                                          | 20593  | 20.000   | .000   | SR       |
| 6626 S   | TOCK | 693 <b>94</b> | 16112  | 20                                                                          | 31893  | 20.000   | .000   | SR       |
| 6626 S'  | TOCK | 693 <b>94</b> | 16782  | 30                                                                          | 40193  | 20.000   | .000   | SR       |
| 6626 S   | TOCK | 69394         | 19246  | 40                                                                          | 52793  | 20.000   | .000   | SR       |
| 6626 S   | TOCK | 69394         | 20480  | 50                                                                          | 62993  | 20.000   | .000   | SR       |
| 163 S    | TOCK | 72586         | 22606  | 10                                                                          | 90193  | 20.000   | .000   | SR       |
| 163 S    | TOCK | 72590         | 23206  | 10                                                                          | 92293  | 20.000   | .000   | SR       |
| 163 S'   | TOCK | 72590         | 24216  | 20                                                                          | 102293 | 20.000   | 20.000 | SR       |
| 163 S    | TOCK | 72590         | 25129  | 30                                                                          | 111693 | 20.000   | .000   | SR       |

26074 40 122093

163 STOCK 72590

20.000

SR +

20.000

| PO0153.  |          |       |        |      | e Order<br>iver Det | 13:43:54       | 12/03/01 |      |
|----------|----------|-------|--------|------|---------------------|----------------|----------|------|
| Produc   | ct 1090: | 268   | GEN T  | HINN | ER CONFO            | ORMAL (R4K183) |          |      |
| Vendor [ | Disp     | P.O.  | Rec No | Lin  | Date                | Received       | Billed   | Whse |
| 163 \$   | STOCK    | 72590 | 28445  | 50   | 21794               | 20.000         | .000     | SR   |
| 163 9    | STOCK    | 72590 | 30882  | 60   | 41994               | 20.000         | 20.000   | SR   |
| 163 9    | STOCK    | 72590 | 33104  | 70   | 60194               | 20.000         | .000     | SR   |
| 163 9    | STOCK    | 72590 | 33881  | 999  | 62094               | 20.000         | .000     | SR   |
| 163 9    | STOCK    | 72590 | 35260  | 999  | 71894               | 4.000          | .000     | SR   |
| 163 3    | STOCK    | 72590 | 36897  | 999  | 81594               | 20.000         | .000     | SR   |
| 163 9    | STOCK    | 72590 | 39425  | 999  | 92794               | 4.000          | .000     | SR   |
| 163 9    | STOCK    | 72590 | 39448  | 999  | 92894               | 16.000         | .000     | SR   |
| 163 \$   | STOCK    | 72590 | 39531  | 999  | 92994               | 10.000         | .000     | SR   |
|          | STOCK    | 72590 | 40732  | 999  | 102094              | 20.000         | .000     | SR   |
| 163 3    | STOCK    | 72590 | 42698  | 999  | 112194              | 20.000         | .000     | SR   |
|          | STOCK    | 72590 | 49563  | 140  | 30895               | 20.000         | 20.000   | SR   |
|          | STOCK    | 72590 | 50884  | 140  | 32295               | 15.000         | 15.000   | SR   |
|          | STOCK    | 72590 | 53247  | 140  | 41995               | 20.000         | .000     | SR + |
|          |          |       |        |      |                     |                |          |      |

| PO0153.05<br>* HISTORY | 0153.05 1 Purchase Order Inquiry HISTORY * Receiver Detail |       |        |       | 13:43:54 | 12/03/01       |        |      |
|------------------------|------------------------------------------------------------|-------|--------|-------|----------|----------------|--------|------|
| Product                | 10902                                                      | 68    | GEN TI | HINNI | ER CONFO | ORMAL (R4K183) |        |      |
| Vendor Dis             | gp                                                         | P.O.  | Rec No | Lin   | Date     | Received       | Billed | Whse |
| 163 STC                | -<br>CK                                                    | 72590 | 55844  | 80    | 52495    | 30.000         | .000   | SR   |
| 163 STC                | OCK                                                        | 72590 | 57967  | 80    | 62695    | 20.000         | .000   | SR   |
| 163 STC                | CK                                                         | 72590 | 59974  | 80    | 71995    | 20.000         | .000   | SR   |
| 163 STC                | OCK                                                        | 72590 | 61445  | 999   | 80495    | 20.000         | 20.000 | SR   |
| 163 STC                | OCK                                                        | 72590 | 62537  | 150   | 81895    | 20.000         | 20.000 | SR   |
| 163 STC                | OCK                                                        | 72590 | 64115  | 150   | 90795    | 25.000         | 25.000 | SR   |
| 163 STC                | OCK                                                        | 90049 | 65593  | 10    | 92695    | 20.000         | .000   | SR   |
| 163 STC                | OCK                                                        | 90101 | 67054  | 10    | 101895   | 20.000         | 20.000 | SR   |
| 163 STC                | OCK                                                        | 91613 | 69186  | 10    | 112095   | 20.000         | 20.000 | SR   |
| 163 STC                | OCK                                                        | 91811 | 70823  | 10    | 121895   | 10.000         | 10.000 | SR   |
| 163 STC                | OCK                                                        | 91831 | 71988  | 10    | 10596    | 15.000         | 15.000 | SR   |
| 163 STC                | OCK                                                        | 91855 | 72756  | 10    | 11696    | 20.000         | 20.000 | SR   |
|                        | _                                                          |       | 70460  |       | 10106    | E 000          | 4 000  |      |

12496

5.000

5.000

1.000

1.000

RJ

SR +

F3=Exit F7=Fold F12=Previous

73460 10 12496

73460 10

163 REJ

163 STOCK 92445

92445

| PO0153.05 1 * HISTORY *                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                | ase Order Inqu<br>ceiver Detail                                                                         | niry                                                                                     | 13:43:54                                                                                                                   | 12/03/01                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Product 1090268                                                                                                                                                                         | GEN THIN                                                                                                                                                                                                                                                                                                                       | NER CONFORMAI                                                                                           | (R4K183)                                                                                 |                                                                                                                            |                                          |
| Vendor Disp P. 163 SNDOUT 924 163 STOCK 924 163 STOCK 918 163 STOCK 936 163 STOCK 936 163 STOCK 936 163 STOCK 937 163 STOCK 937 163 STOCK 946 163 STOCK 947 163 STOCK 947 163 STOCK 950 | 51       73928       1         31       74305       1         662       76322       1         662       76324       1         632       76441       1         632       76451       1         15       76931       1         65       79238       1         80299       1         22       82171       1         84752       1 | Date 10 12496 10 13096 10 20596 10 31296 10 31396 10 31496 10 32196 10 42796 10 51496 10 61196 10 72496 | Received 5.000 10.000 25.000 2.000 8.000 5.000 20.000 15.000 20.000 25.000 10.000 15.000 | Billed<br>1.000<br>10.000<br>25.000<br>2.000<br>8.000<br>5.000<br>20.000<br>15.000<br>20.000<br>25.000<br>10.000<br>15.000 | Whse OT SR SR SR SR SR SR SR SR SR SR SR |
| 163 STOCK 951                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                | 20 92496                                                                                                | 5.000                                                                                    | 5.000                                                                                                                      | SR +                                     |

| PO0153.05 : * HISTORY *               | L                      | Purchase Order I<br>Receiver Deta                     |                            | 13:43:54                 | 12/03/01         |
|---------------------------------------|------------------------|-------------------------------------------------------|----------------------------|--------------------------|------------------|
| Product 1090                          | 0268                   | GEN THINNER CONFOR                                    | MAL (R4K183)               |                          |                  |
| Vendor Disp<br>163 STOCK<br>163 STOCK | P.O.<br>95139<br>95224 | Rec No Lin Date<br>89983 10 100196<br>91858 10 102396 | Received<br>4.000<br>2.000 | Billed<br>4.000<br>2.000 | Whse<br>SR<br>SR |

5.000

5.000

SR

|   | 0.5 | DIOCK | 20141         | 24020  | 10 | 112100        | 3.000 | 3.000 | SK. |
|---|-----|-------|---------------|--------|----|---------------|-------|-------|-----|
| 1 | 63  | STOCK | 967 <b>64</b> | 94927  | 10 | 120496        | 5.000 | .000  | SR  |
| 1 | 63  | STOCK | 98842         | 98566  | 10 | 12197         | 3.000 | 3.000 | SR  |
| 1 | 63  | STOCK | 97630         | 100395 | 10 | 21497         | 2.000 | .000  | SR  |
| 1 | 63  | STOCK | 101359        | 108884 | 10 | 61897         | 4.000 | .000  | SR  |
| 1 | 63  | STOCK | 101391        | 112117 | 10 | 73197         | 5.000 | .000  | SR  |
| 1 | 63  | STOCK | 102099        | 116195 | 10 | 92 <b>997</b> | 5.000 | .000  | SR  |
| 1 | 63  | STOCK | 109026        | 143822 | 10 | 11999         | 2.000 | 2.000 | SR  |
|   |     |       |               |        |    |               |       |       |     |

94098 10 112196

163 STOCK

967**47** 

Purchase Order Inquiry 16:25:08 12/03/01 PO0153.05 1 Receiver Detail GEN THINNER CONFORMAL (R4K183) Product 1090268 
 ndor Disp
 P.O.
 Rec No Lin Date
 Received

 163 STOCK
 103940
 119151
 10 111297
 5.000

 163 STOCK
 103940
 122576
 10 12098
 5.000

 163 STOCK
 105207
 123985
 10 21298
 4.000

 163 STOCK
 105207
 124880
 10 22698
 6.000

 163 STOCK
 105207
 131878
 20 61898
 4.000

 163 STOCK
 105207
 133443
 20 71698
 6.000

 163 STOCK
 105207
 137720
 20 92598
 4.000

 163 STOCK
 105207
 138226
 20 100298
 6.000

 163 STOCK
 109154
 144658
 10 20399
 2.000

 163 STOCK
 109154
 145582
 10 22399
 3.000

 163 STOCK
 109154
 146462
 10 30899
 2.000

 163 STOCK
 109154
 148274
 10 40699
 2.000

 163 STOCK
 109154
 149011
 10 42099
 2.000

 163 STOCK
 109154</ Billed Whse Vendor Disp .000 SR .000 .000 SR .000 SR SR .000 4.000 SR .000 SR 2.000 SR 3.000 SR 2.000 2.000 2.000 SR SR SR 3.000 SR +

| PO0153 | 3.05   | 1      |        |      | e Order<br>iver Det | Inquiry<br>ail | 17:38:21 | 11/15/01 |
|--------|--------|--------|--------|------|---------------------|----------------|----------|----------|
| Produ  | ct 109 | 0268   | GEN T  | HINN | ER CONFO            | ORMAL (R4K183) |          |          |
| Vendor | -      | P.O.   | Rec No |      |                     | Received       | Billed   | Whse     |
|        | STOCK  | 109154 | 151797 | 10   | 60499               | 2.000          | 2.000    | SR       |
| 163    | STOCK  | 109154 | 153097 | 10   | 70199               | 2.000          | 2.000    | SR       |
| 163    | STOCK  | 109154 | 153944 | 10   | 71499               | 2.000          | 2.000    | SR       |
| 163    | STOCK  | 109154 | 154389 | 10   | 72299               | 2.000          | 2.000    | SR       |
| 163    | STOCK  | 109154 | 155661 | 10   | 80999               | 4.000          | 4.000    | SR       |
| 163    | STOCK  | 109154 | 158243 | 10   | 91099               | 3.000          | 3.000    | SR       |
| 163    | STOCK  | 109154 | 159633 | 10   | 100499              | 3.000          | 3.000    | SR       |
| 163    | STOCK  | 109154 | 161519 | 10   | 110399              | 3.000          | 3.000    | SR       |
| 163    | STOCK  | 109154 | 164079 | 10   | 121599              | 3.000          | 3.000    | SR       |
| 163    | STOCK  | 109154 | 167316 | 10   | 20400               | 3.000          | 3.000    | SR       |
| 163    | STOCK  | 109154 | 169168 | 10   | 30100               | 3.000          | 3.000    | SR       |
| 163    | STOCK  | 109154 | 171118 | 10   | 32700               | 1.000          | 1.000    | SR       |
|        | STOCK  | 109154 | 171781 | 10   | 40400               | 4.000          | 4.000    | SR       |
|        | STOCK  | 109154 | 174725 | 10   | 50400               | 4.000          | 4.000    | SR +     |

F3=Exit

F7=Fold

F12=Previous

5 gallon puls of conformal Conting thinner.

| P0015  | 3.05    | 1      |        |      | e Order<br>iver Det | Inquiry<br>ail | 17:38:21 | 11/15/01 |
|--------|---------|--------|--------|------|---------------------|----------------|----------|----------|
| Produ  | uct 109 | 90268  | GEN T  | HINN | er confo            | RMAL (R4K183)  |          |          |
| Vendor | Disp    | P.O.   | Rec No | Lin  | Date                | Received       | Billed   | Whse     |
| 163    | STOCK   | 109154 | 177244 | 10   | 60500               | 2.000          | 2.000    | SR       |
| 163    | STOCK   | 109154 | 179230 | 10   | 70500               | 2.000          | 2.000    | SR       |
| 163    | STOCK   | 109154 | 181848 | 10   | 80400               | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 185503 | 10   | 91500               | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 187657 | 10   | 101000              | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 192270 | 10   | 120600              | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 197600 | 10   | 20201               | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 201510 | 10   | 31301               | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 204409 | 10   | 40601               | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 207567 | 10   | 50401               | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 212383 | 10   | 61801               | 3.000          | 3.000    | SR       |
| 163    | STOCK   | 109154 | 220842 | 10   | 90601               | 4.000          | 4.000    | SR       |
|        |         |        |        |      |                     |                |          |          |

F7=Fold F12=Previous F3=Exit

| PO0153.05 1<br>* HISTORY *       | 13:44:23                       | 12/03/01                                                                  |                         |                              |
|----------------------------------|--------------------------------|---------------------------------------------------------------------------|-------------------------|------------------------------|
| Product 1261572                  | GEN CONFOR                     | RMAL COAT (1B31LSE)                                                       |                         |                              |
| 3812 STOCK 112<br>3812 STOCK 112 | 980 168865 10<br>980 178930 10 | Date Received<br>22300 6.000<br>22500 1.000<br>63000 1.000<br>81600 1.000 | 6.000<br>1.000<br>1.000 | Whse<br>SR<br>SR<br>SR<br>SR |

| PO015  | 3.05    | 1      |        |      | e Order I<br>iver Deta |           | 17:38:37 | 11/15/01 |
|--------|---------|--------|--------|------|------------------------|-----------|----------|----------|
| Produ  | uct 126 | 1572   | GEN C  | ONFO | RMAL COAT              | (1B31LSE) |          |          |
| Vendor | Disp    | P.O.   | Rec No | Lin  | Date                   | Received  | Billed   | Whse     |
| 2626   | STOCK   | 114204 | 185983 | 10   | 92200                  | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 187175 | 10   | 100400                 | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 188783 | 10   | 102700                 | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 190974 | 10   | 112200                 | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 195889 | 10   | 11701                  | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 199291 | 10   | 22001                  | 5.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 202919 | 10   | 32301                  | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 204802 | 10   | 41001                  | 2.000     | 2.000    | SR       |
| 2626   | STOCK   | 114204 | 207813 | 10   | 50701                  | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 211152 | 10   | 60601                  | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 211153 | 10   | 60601                  | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 214692 | 10   | 71101                  | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 217173 | 10   | 80101                  | 1.000     | 1.000    | SR       |
| 2626   | STOCK   | 114204 | 218469 | 10   | 81401                  | 1.000     | 1.000    | SR +     |

F3=Exit

F7=Fold

F12=Previous

5 gallon pails of conformal
Loating.

PO0153.05 1 Purchase Order Inquiry 17:38:37 11/15/01

GEN CONFORMAL COAT (1B31LSE)

Receiver Detail

Product 1261572

Rec No Lin Date 220650 10 90501 223821 10 100401 225265 10 101701 Billed Vendor Disp P.O. Received Whse 1.000 1.000 SR

2626 STOCK 114204 2626 STOCK 114204 2626 STOCK 114204 .000 SR 2.000 2.000 SR

| PO015  | 3.05 :<br>TORY * | 1             |        |      | e Order<br>iver Det | 13:44:48    | 12/03/01 |      |
|--------|------------------|---------------|--------|------|---------------------|-------------|----------|------|
| Prod   | uct 1041         | 1411          | GEN P  | OTTI | NG COMPO            | OUND (1265) |          |      |
| Vendor | Disp             | P.O.          | Rec No | Lin  | Date                | Received    | Billed   | Whse |
| 2662   | STOCK            | 60025         | 406    | 10   | 102591              | 1.000       | .000     | SR   |
| 2662   | STOCK            | 60025         | 624    | 10   | 111591              | 1.000       | .000     | SR   |
| 2662   | STOCK            | 60025         | 1443   | 10   | 11392               | 1.000       | .000     | SR   |
| 2662   | STOCK            | 605 <b>54</b> | 1896   | 10   | 20492               | 1.000       | .000     | SR   |
| 2662   | STOCK            | 60025         | 2062   | 10   | 21192               | 1.000       | .000     | SR   |
| 2662   | STOCK            | 60554         | 2622   | 10   | 30692               | 1.000       | .000     | SR   |
| 2662   | STOCK            | 60025         | 2718   | 10   | 31092               | 1.000       | .000     | SR   |
| 2662   | STOCK            | 60554         | 2687   | 10   | 31092               | 1.000       | .000     | SR   |
| 2662   | MRA              | 60554         | 2951   | 20   | 32092               | 1.000       | .000     | MA   |
| 2662   | STOCK            | 605 <b>54</b> | 3420   | 30   | 40792               | 1.000       | .000     | SR   |
| 2662   | STOCK            | 605 <b>54</b> | 3443   | 40   | 40792               | 1.000       | .000     | SR   |
| 2662   | STOCK            | 64678         | 4002   | 10   | 42992               | 2.000       | .000     | SR   |
|        | STOCK            | 60554         | 4234   | 50   | 50792               | 1.000       | .000     | SR   |
| 2662   |                  | 60025         | 4297   | 10   | 51292               | 1.000       | .000     | SR + |
|        |                  |               |        |      |                     |             |          |      |

F3=Exit

F12=Previous

| PO015: |          | 1             |              |      | e Order<br>iver Det | Inquiry<br>ail | 13:44:48 | 12/03/01 |
|--------|----------|---------------|--------------|------|---------------------|----------------|----------|----------|
| Produ  | uct 1041 | 1411          | GEN P        | OTTI | NG COMPO            | OUND (1265)    |          |          |
| Vendor | -        | P.O.          | Rec No       |      |                     | Received       | Billed   | Whse     |
|        | STOCK    | 605 <b>54</b> | 5041         | 60   | 60592               | 1.000          | .000     | SR       |
|        | STOCK    | 64678         | 5788         | 20   | 62692               | 1.000          | .000     | SR       |
| 2662   | STOCK    | 605 <b>54</b> | 6173         | 70   | 70892               | 1.000          | .000     | SR       |
| 2662   | STOCK    | 64678         | 686 <b>6</b> | 30   | 72992               | 1.000          | .000     | SR       |
| 2662   | STOCK    | 605 <b>54</b> | 7365         | 80   | 80792               | 1.000          | .000     | SR       |
| 2662   | REJ      | 60554         | 8586         | 90   | 90492               | 1.000          | .000     | RJ       |
| 2662   | MRA      | 605 <b>54</b> | 9057         | 110  | 91692               | 1.000          | .000     | MA       |
| 2662   | STOCK    | 60554         | 9817         | 100  | 100292              | 1.000          | .000     | SR       |
| 2662   | STOCK    | 60554         | 10016        | 10   | 100792              | 1.000          | .000     | SR       |
| 2662   | STOCK    | 670 <b>61</b> | 10472        | 10   | 102092              | 1.000          | .000     | SR       |
| 2662   | STOCK    | 60554         | 11167        | 10   | 110992              | 2.000          | .000     | SR       |
|        | STOCK    | 67583         | 11360        |      | 111392              | 160.000        |          |          |
|        |          |               |              |      |                     |                | .000     | SR       |
|        | STOCK    | 67591         | 11359        | 10   | 111392              | 80.000         | .000     | SR       |
| 2662   | STOCK    | 67591         | 11727        | 20   | 112592              | 40.000         | .000     | SR +     |

F7=Fold F3=Exit F12=Previous SR +

.000

| PO0153<br>* HIST |         | L             |               |      | e Order<br>iver Det | Inquiry<br>ail | 13:44:48 | 12/03/01 |
|------------------|---------|---------------|---------------|------|---------------------|----------------|----------|----------|
| Produ            | ct 1041 | 1411          | GEN P         | ITTC | NG COMPO            | OUND (1265)    |          |          |
| Vendor           | Disp    | P.O.          | Rec No        | Lin  | Date                | Received       | Billed   | Whse     |
| 2662             | STOCK   | 675 <b>91</b> | 11728         | 30   | 112592              | 40.000         | .000     | SR       |
| 2662             | STOCK   | 67591         | 11862         | 40   | 120192              | 40.000         | .000     | SR       |
| 2662             | STOCK   | 67591         | 12388         | 50   | 121592              | 40.000         | .000     | SR       |
| 2662             | STOCK   | 675 <b>91</b> | 12741         | 60   | 122992              | 40.000         | .000     | SR       |
| 2662             | STOCK   | 67591         | 13162         | 70   | 11393               | 40.000         | .000     | SR       |
| 2662             | STOCK   | 67591         | 13773         | 80   | 12893               | 40.000         | .000     | SR       |
| 2662             | STOCK   | 67591         | 14103         | 90   | 20593               | 40.000         | .000     | SR       |
| 2662             | STOCK   | 67591         | 14104         | 100  | 20593               | 40.000         | .000     | SR       |
| 2662             | STOCK   | 67591         | 14641         | 110  | 21893               | 40.000         | .000     | SR       |
| 2662             | STOCK   | 67591         | 1537 <b>7</b> | 120  | 30493               | 40.000         | .000     | SR       |
| 2662             | STOCK   | 69634         | 15892         | 10   | 31293               | 80.000         | .000     | SR       |
| 2662             | STOCK   | 696 <b>34</b> | 16074         | 10   | 31793               | 80.000         | 80.000   | SR       |
| 2662             | STOCK   | 69634         | 16416         | 10   | 32593               | 640.000        | 640.000  | SR       |
| 2662             | STOCK   | 69634         | 16417         | 20   | 32593               | 80.000         | 80.000   | SR +     |
|                  |         |               |               |      |                     |                |          |          |
|                  |         |               |               |      |                     |                |          |          |
|                  |         |               |               |      |                     |                |          |          |

F3=Exit

F12=Previous

| PO0153<br>* HIST |               | 1             |                 |           | e Order<br>iver Det | 13:44:48            | 12/03/01    |            |
|------------------|---------------|---------------|-----------------|-----------|---------------------|---------------------|-------------|------------|
| Produ            | ct 1043       | 1411          | GEN PO          | ITTC      | NG COMPO            | OUND (1265)         |             |            |
| Vendor<br>2662   | Disp<br>STOCK | P.O.<br>69634 | Rec No<br>16634 | Lin<br>30 | Date<br>33193       | Received<br>400.000 | Billed .000 | Whse<br>SR |
|                  | STOCK         | 67591         | 16783           | 10        | 40193               | 80.000              | 80.000      | SR         |
| 2662             | STOCK         | 675 <b>91</b> | 17413           | 10        | 41593               | 80.000              | .000        | SR         |
| 2662             | STOCK         | 69634         | 17762           | 20        | 42793               | 320.000             | .000        | SR         |
| 2662             | STOCK         | 69634         | 17763           | 40        | 42793               | 80.000              | .000        | SR         |
| 2662             | STOCK         | 69634         | 19413           | 40        | 60293               | 320.000             | 320.000     | SR         |
| 2662             | STOCK         | 696 <b>34</b> | 19414           | 50        | 60293               | 80.000              | 80.000      | SR         |
| 2662             | STOCK         | 696 <b>34</b> | 20559           | 60        | 63093               | 400.000             | 400.000     | SR         |
| 2662             | STOCK         | 69634         | 21383           | 50        | 72793               | 320.000             | 320.000     | SR         |
| 2662             | STOCK         | 69634         | 21384           | 70        | 72793               | 80.000              | 80.000      | SR         |
| 2662             | STOCK         | 696 <b>34</b> | 22636           | 70        | 90293               | 320.000             | 320.000     | SR         |
| 2662             | STOCK         | 69634         | 22637           | 80        | 90293               | 80.000              | 80.000      | SR         |
|                  | STOCK         | 69634         | 23516           | 80        | 100193              | 320.000             | 320.000     | SR         |
| 2662             | STOCK         | 69634         | 23517           | 90        | 100193              | 80.000              | 80.000      | SR +       |

| PO0153.<br>* HISTO                                                                                           |                                                                              | L                                                                                                                |                                                                                                                    |                                      | e Order<br>iver Det                                                                                      | 13:44:48                                                                   | 12/03/01                                                                                                 |                                                                  |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Produc                                                                                                       | ct 1041                                                                      | 1411                                                                                                             | GEN P                                                                                                              | 1 TTC                                | NG COMPO                                                                                                 | DUND (1265)                                                                |                                                                                                          |                                                                  |
| Vendor E<br>2662 S<br>2662 S<br>2662 S<br>2662 S<br>2662 S<br>2662 S<br>2662 S<br>2662 S<br>2662 S<br>2662 S | STOCK<br>STOCK<br>STOCK<br>INSP<br>STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK | P.O.<br>83394<br>84273<br>90048<br>90048<br>90098<br>90098<br>90098<br>90098<br>93716<br>94761<br>95014<br>95260 | Rec No<br>45921<br>48607<br>63350<br>63397<br>63901<br>72172<br>72173<br>77843<br>77844<br>83838<br>85618<br>90519 | Lin 10 20 10 10 20 30 30 10 10 10 10 | Date<br>11795<br>22495<br>82995<br>83095<br>90695<br>10996<br>40496<br>40496<br>71096<br>80596<br>100796 | Received 6.000 8.000 2.000 2.000 6.000 2.000 2.000 2.000 2.000 2.000 2.000 | Billed<br>6.000<br>8.000<br>2.000<br>.000<br>6.000<br>4.000<br>2.000<br>2.000<br>2.000<br>2.000<br>2.000 | Whse<br>SR<br>SR<br>SR<br>IN<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR |
| 2662 S                                                                                                       | STOCK                                                                        | 95150<br>952 <b>43</b>                                                                                           | 90766<br>93005                                                                                                     | 10<br>10                             | 100996<br>111196                                                                                         | 2.000<br>2.000                                                             | 2.000<br>2.000                                                                                           | SR<br>SR +                                                       |

| PO0153.05 1<br>* HISTORY * |         |        |        |     | e Order<br>iver Det |            | 13:44:48 | 12/03/01 |
|----------------------------|---------|--------|--------|-----|---------------------|------------|----------|----------|
| Produ                      | uct 104 | 1411   | GEN PC | TTI | NG COMPO            | UND (1265) |          |          |
| Vendor                     | Disp    | P.O.   | Rec No | Lin | Date                | Received   | Billed   | Whse     |
| 2662                       | STOCK   | 96679  | 94320  | 10  | 112596              | 2.000      | 2.000    | SR       |
| 2662                       | STOCK   | 96770  | 95904  | 10  | 121696              | 4.000      | 2.000    | SR       |
| 2662                       | STOCK   | 97682  | 101905 | 10  | 30697               | 4.000      | 4.000    | SR       |
| 2662                       | STOCK   | 103204 | 118584 | 10  | 103097              | 10.000     | 10.000   | SR       |
| 2662                       | STOCK   | 109173 | 144872 | 10  | 20999               | 4.000      | 4.000    | SR       |

| PO0153 | .05     | 1      |        |     | e Order<br>iver Det |            | 17:38:50 | 11/15/01 |
|--------|---------|--------|--------|-----|---------------------|------------|----------|----------|
| Produ  | nct 104 | 1411   | GEN PO | TTI | NG COMPO            | UND (1265) |          |          |
| Vendor | Disp    | P.O.   | Rec No | Lin | Date                | Received   | Billed   | Whse     |
| 2626   | STOCK   | 109160 | 145508 | 10  | 22299               | 4.000      | 2.000    | SR       |
| 2626   | STOCK   | 109160 | 153157 | 10  | 70199               | 1.000      | 1.000    | SR       |
| 2626   | STOCK   | 109160 | 154396 | 10  | 7229 <b>9</b>       | 1.000      | 1.000    | SR       |
| 2626   | STOCK   | 109160 | 160294 | 10  | 101399              | 1.000      | 1.000    | SR       |
| 2626   | STOCK   | 109160 | 163872 | 10  | 121099              | 1.000      | 1.000    | SR       |
| 2626   | STOCK   | 109160 | 165191 | 10  | 10400               | 1.000      | 1.000    | SR       |
| 2626   | STOCK   | 109160 | 166235 | 10  | 12000               | 1.000      | 1.000    | SR       |
| 2626   | STOCK   | 109160 | 169739 | 10  | 30800               | 1.000      | 1.000    | SR       |
|        |         |        |        |     |                     |            |          |          |

F3 = Exit

2626 STOCK

2626 STOCK 109160

4280 STOCK 114175

4280 STOCK 114175

4280 STOCK 114175

4280 STOCK 114175

109160

F7=Fold

175607 10 51200

195106 10 11001

196096 10 11801

10 80900

10 82500

10 110700

182086

183726

189795

F12=Previous

1.000

2.000

2.000

1.000

1.000

1.000

SR

SR

SR

SR

SR +

to UB PAILS of Potting compound tits. Farts AFB

1.000

2.000

2.000

1.000

1.000

1.000

| PO0153 | 3.05    | 1      |        |      | e Order<br>iver Det | Inquiry<br>ail | 17:38:50 | 11/15/01 |
|--------|---------|--------|--------|------|---------------------|----------------|----------|----------|
| Produ  | uct 104 | 11411  | GEN P  | OTTI | NG COMPO            | UND (1265)     |          |          |
| Vendor | Disp    | P.O.   | Rec No | Lin  | Date                | Received       | Billed   | Whse     |
| 4280   | STOCK   | 114175 | 201710 | 10   | 31401               | 1.000          | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 202704 | 10   | 32201               | 1.000          | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 207076 | 10   | 50101               | 1.000          | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 211092 | 10   | 60601               | 1.000          | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 221524 | 10   | 91201               | 1.000          | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 222683 | 10   | 92501               | 2.000          | 2.000    | SR       |
| 4280   | STOCK   | 114175 | 223527 | 10   | 100301              | 1.000          | 1.000    | SR       |

| PO0153.05 1<br>* HISTORY *                                                                                                                                                                                             |                                                                                                     |                                                                                                                   | e Order I<br>iver Deta                                          |                                                                                                   | 13:45:17                                                                              | 12/03/01                                                             |                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------|
| Product 10001                                                                                                                                                                                                          | .35                                                                                                 | GEN PO                                                                                                            | ITTC                                                            | NG COMPO                                                                                          | UND (2850FT)                                                                          |                                                                      |                                                                  |
| Vendor Disp 7 STOCK 7 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK | P.O.<br>1<br>20284<br>20284<br>20284<br>20284<br>20284<br>61635<br>61635<br>61635<br>61635<br>61635 | Rec No<br>134<br>135<br>5391<br>5977<br>6331<br>6941<br>7369<br>9338<br>10077<br>12476<br>12972<br>13225<br>14091 | Lin<br>10<br>10<br>10<br>10<br>10<br>10<br>20<br>30<br>40<br>50 | 91791<br>91791<br>61892<br>70192<br>71492<br>73092<br>81092<br>92492<br>100892<br>121892<br>10693 | Received 100.000 1.000 40.000 40.000 40.000 20.000 40.000 40.000 30.000 30.000 30.000 | Billed<br>.000<br>.000<br>.000<br>.000<br>.000<br>.000<br>.000<br>.0 | Whse<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR |
| 2662 STOCK                                                                                                                                                                                                             | 61635                                                                                               | 14652                                                                                                             | 60                                                              |                                                                                                   | 30.000                                                                                | .000                                                                 | SR +                                                             |

F3=Exit

F12=Previous

|                 | PO0153.05 1<br>* HISTORY * |       |               |      | e Order<br>iver Det | 13:45:17 | 12/03/01 |      |
|-----------------|----------------------------|-------|---------------|------|---------------------|----------|----------|------|
| Product 1000135 |                            |       | GEN P         | OTTI | NG COMPO            |          |          |      |
| Vendor          | Disp                       | P.O.  | Rec No        | Lin  | Date                | Received | Billed   | Whse |
| 2662            | STOCK                      | 61635 | 156 <b>91</b> | 80   | 31093               | 30.000   | .000     | SR   |
| 2662            | STOCK                      | 61635 | 16426         | 30   | 32593               | 10.000   | .000     | SR   |
| 2662            | STOCK                      | 61635 | 16427         | 40   | 32593               | 10.000   | .000     | SR   |
| 2662            | STOCK                      | 61635 | 16428         | 50   | 32593               | 10.000   | .000     | SR   |
| 2662            | STOCK                      | 61635 | 18614         | 230  | 51193               | 1200.000 | .000     | SR   |
| 2662            | STOCK                      | 61635 | 18947         | 230  | 52093               | 600.000  | .000     | SR   |
| 2662            | STOCK                      | 61635 | 19304         | 240  | 52893               | 600.000  | .000     | SR   |
| 2662            | STOCK                      | 61635 | 19364         | 250  | 60193               | 1200.000 | .000     | SR   |
| 2662            | STOCK                      | 61635 | 19972         | 250  | 61693               | 600.000  | .000     | SR   |
| 2662            | STOCK                      | 61635 | 19973         | 260  | 61693               | 1200.000 | .000     | SR   |
| 2662            | STOCK                      | 61635 | 22694         | 270  | 90393               | 1800.000 | 1800.000 | SR   |
| 2662            | STOCK                      | 61635 | 23661         | 290  | 100693              | 1800.000 | 1800.000 | SR   |
| 2662            | STOCK                      | 72630 | 24787         | 10   | 110893              | 1800.000 | 1800.000 | SR   |
| 2662            | STOCK                      | 72630 | 25779         | 20   | 120893              | 1800.000 | 1800.000 | SR + |

F3=Exit

F12=Previous

| PO0153.05<br>* HISTORY * |       |          | order<br>er Det | Inquiry<br>ail | 13:45:17  | 12/03/01 |      |
|--------------------------|-------|----------|-----------------|----------------|-----------|----------|------|
| Product 1000             | 0135  | GEN POT  | TING            |                |           |          |      |
| Vendor Disp              | P.O.  | Rec No I |                 | Date           | Received  | Billed   | Whse |
| 2662 STOCK               | 72630 | 26550    |                 | .0594          | 1800.000  | 1800.000 | SR   |
| 2662 STOCK               | 75522 | 29368    |                 | 31194          | 1800.000  | 1800.000 | SR   |
| 2662 STOCK               | 76025 | 37110    |                 | 1894           | 2100.000  | 2100.000 | SR   |
| 2662 STOCK               | 76025 | 41327    | 20 10           | 3194           | 2275.009  | 2100.000 | SR   |
| 2662 STOCK               | 76025 | 46044    | 20 1            | .1995          | 1300.000  | 1200.000 | SR   |
| 2662 STOCK               | 76025 | 49160    | 10 3            | 30395          | 1800.000  | 1800.000 | SR   |
| 2662 STOCK               | 76025 | 52262    | 20 4            | 10695          | 600.000   | 600.000  | SR   |
| 2662 STOCK               | 76025 | 52561    | 20 4            | 1095           | 2400.000  | 2400.000 | SR   |
| 2662 STOCK               | 76025 | 59752    | 20 7            | 1795           | 2850.000  | 2850.000 | SR   |
| 2662 STOCK               | 76025 | 64930    | 20 9            | 1895           | 1200.000  | 1200.000 | SR   |
| 2662 STOCK               | 76025 | 68746    | 20 11           | 1395           | 57000.000 | .000     | SR   |
| 2662 STOCK               | 76025 | 68839    | 20 11           |                | 1200.000  | 1200.000 | SR   |
| 2662 STOCK               | 76025 | 74537    |                 | 0896           | 120.000   | 120.000  | SR   |
| 2662 STOCK               | 76025 | 74689    |                 | 1296           | 180.000   | 180.000  | SR + |
|                          |       |          |                 |                |           |          |      |
|                          |       |          |                 |                |           |          |      |

F3≃Exit

F12≈Previous

| PO0153.05 1<br>* HISTORY * |         |       |        |       | Order :<br>ver Deta | 13:45:17     | 12/03/01 |      |
|----------------------------|---------|-------|--------|-------|---------------------|--------------|----------|------|
| Produ                      | uct 100 | 0135  | GEN PO | OTTIN | G COMPO             | JND (2850FT) |          |      |
| Vendor                     | Disp    | P.O.  | Rec No | Lin   | Date                | Received     | Billed   | Whse |
| 2662                       | STOCK   | 76025 | 75058  | 20    | 21696               | 300.000      | 300.000  | SR   |
| 2662                       | STOCK   | 76025 | 75126  | 20    | 21996               | 1200.000     | 1200.000 | SR   |
| 2662                       | STOCK   | 76025 | 76231  | 10    | 31196               | 180.000      | 180.000  | SR   |
| 2662                       | STOCK   | 76025 | 76232  | 20    | 31196               | 120.000      | 120.000  | SR   |
| 2662                       | STOCK   | 76025 | 79030  | 20    | 42496               | 300.000      | 300.000  | SR   |
| 2662                       | STOCK   | 76025 | 79351  | 20    | 43096               | 300.000      | 300.000  | SR   |
| 2662                       | STOCK   | 76025 | 81131  | 20    | 528 <b>96</b>       | 60.000       | 60.000   | SR   |
| 2662                       | STOCK   | 76025 | 81157  | 20    | 52896               | 300.000      | 300.000  | SR   |
| 2662                       | STOCK   | 76025 | 81216  | 20    | 52996               | 60.000       | 60.000   | SR   |
| 2662                       | STOCK   | 76025 | 81217  | 20    | 52996               | 300.000      | 300.000  | SR   |
| 2662                       | STOCK   | 76025 | 82212  | 20    | 61296               | 300.000      | 300.000  | SR   |
| 2662                       | STOCK   | 76025 | 83175  | 20    | 62696               | 325.000      | 300.000  | SR   |
| 2662                       | STOCK   | 76025 | 84123  | 20    | 71596               | 300.000      | 300.000  | SR   |
| 2662                       | STOCK   | 76025 | 86239  | 20    | 81396               | 300.000      | 300.000  | SR + |

| PO0153          | 3.05<br>TORY * | 1             |        |      | e Order<br>iver Det | 13:45:17 | 12/03/01 |      |
|-----------------|----------------|---------------|--------|------|---------------------|----------|----------|------|
| Product 1000135 |                |               | GEN P  | OTTI | NG COMPO            |          |          |      |
| Vendor          | Disp           | P.O.          | Rec No | Lin  | Date                | Received | Billed   | Whse |
| 2662            | STOCK          | 95124         | 90296  | 10   | 100396              | 600.000  | 600.000  | SR   |
| 2662            | STOCK          | 95124         | 93098  | 10   | 111296              | 600.000  | 600.000  | SR   |
| 2662            | STOCK          | 95124         | 95054  | 10   | 120696              | 600.000  | 600.000  | SR   |
| 2662            | STOCK          | 95124         | 99001  | 10   | 12897               | 600.000  | 600.000  | SR   |
| 2662            | STOCK          | 95124         | 99075  | 20   | 12897               | 1.000    | 1.000    | SR   |
| 2662            | STOCK          | 988 <b>69</b> | 99930  | 10   | 21097               | 6.000    | 6.000    | SR   |
| 2662            | STOCK          | 988 <b>69</b> | 101546 | 10   | 22797               | 7.000    | 7.000    | SR   |
| 2662            | STOCK          | 988 <b>69</b> | 102061 | 10   | 31097               | 7.000    | 7.000    | SR   |
| 2662            | STOCK          | 97706         | 104386 | 10   | 40997               | 10.000   | 10.000   | SR   |
| 2662            | STOCK          | 97706         | 105935 | 10   | 42897               | 5.000    | 5.000    | SR   |
| 2662            | STOCK          | 100469        | 107944 | 10   | 60497               | 1.000    | 1.000    | SR   |
| 2662            | STOCK          | 97706         | 108232 | 10   | 60997               | 5.000    | 5.000    | SR   |
| 2662            | STOCK          | 100469        | 108231 | 10   | 60997               | 9.000    | 9.000    | SR   |
| 2662            | STOCK          | 103209        | 118682 | 10   | 110397              | 20.000   | 20.000   | SR + |

| PO0153.05 1<br>* HISTORY * |                                         | e Order Inquir<br>iver Detail | ry 1:   | 3:45:17 | 12/03/01 |
|----------------------------|-----------------------------------------|-------------------------------|---------|---------|----------|
| Product 1000135            | GEN POTTI                               | NG COMPOUND (2                | 2850FT) |         |          |
| · · · · ·                  | .O. Rec No Lin                          |                               | eceived | Billed  | Whse     |
| 2662 STOCK 103             | . 0 = = = = = = = = = = = = = = = = = = | 111897                        | 20.000  | 20.000  | SR       |
| 2662 STOCK 103             | 965 119662 10                           | 112697                        | 20.000  | 20.000  | SR       |
| 2662 STOCK 103             | 965 119882 10                           | 120397                        | 30.000  | 30.000  | SR       |
| 2662 STOCK 103             | 965 120562 10                           | 121797                        | 12.000  | 12.000  | SR       |
| 2662 STOCK 103             | 965 120713 10                           | 121897                        | 8.000   | 8.000   | SR       |
| 2662 STOCK 103             | 965 120899 10                           | 122297                        | 30.000  | 30.000  | SR       |

| PO0153 | 1.05   | 1      |        |      | e Order<br>iver Det | Inquiry<br>ail | 16:42:29 | 12/03/01 |  |
|--------|--------|--------|--------|------|---------------------|----------------|----------|----------|--|
| Produ  | ct 100 | 0135   | GEN P  | OTTI | NG COMPO            | UND (2850FT)   |          |          |  |
| Vendor | Disp   | P.O.   | Rec No | Lin  | Date                | Received       | Billed   |          |  |
| 2662   | STOCK  | 101347 | 109119 | 10   | 62097               | 10.000         | 10.000   | SR       |  |
| 2662   | STOCK  | 101347 | 112875 | 10   | 81497               | 10.000         | 10.000   | SR       |  |
| 2662   | STOCK  | 101347 | 115231 | 10   | 91897               | 5.000          | 5.000    | SR       |  |
| 2662   | STOCK  | 101347 | 116644 | 10   | 10039 <b>7</b>      | 5.000          | 5.000    | SR       |  |
| 2662   | STOCK  | 101347 | 116835 | 10   | 100697              | 20.000         | 20.000   | SR       |  |
| 2662   | M N    | 104576 | 122034 | 10   | 11298               | 30.000         | 30.000   | MN       |  |
| 2662   | STOCK  | 104576 | 124030 | 10   | 21298               | 40.000         | 40.000   | SR       |  |
| 2662   | STOCK  | 104576 | 124180 | 10   | 21698               | 100.000        | 100.000  | SR       |  |
| 2662   | STOCK  | 104576 | 128413 | 11   | 41698               | 32.000         | 32.000   | SR       |  |
| 2662   | STOCK  | 104576 | 129455 | 11   | 50198               | 32.000         | 32.000   | SR       |  |
| 2662   | STOCK  | 104576 | 130772 | 11   | 52798               | 32.000         | 32.000   | SR       |  |
| 2662   | STOCK  | 104576 | 131790 | 11   | 61798               | 12.000         | 12.000   | SR       |  |
| 2662   | STOCK  | 104576 | 131877 | 11   | 61898               | 36.000         | 36.000   | SR       |  |
| 2662   | STOCK  | 104576 | 132719 | 11   | 70798               | 32.000         | 32.000   | SR +     |  |
|        |        |        |        |      |                     |                |          |          |  |

F12=Previous

F7=Fold

F3=Exit

| PO015  | 3.05    | 1      |        |      | e Order 1<br>iver D <b>et</b> a |             | 16:42:29 | 12/03/01 |
|--------|---------|--------|--------|------|---------------------------------|-------------|----------|----------|
| Produ  | uct 100 | 0135   | GEN P  | OTTI | NG COMPO                        | ND (2850FT) |          |          |
| Vendor | Disp    | P.O.   | Rec No | Lin  | Date                            | Received    | Billed   | Whse     |
| 2662   | M N     | 104576 | 133134 | 11   | 71498                           | 16.000      | 16.000   | MIN      |
| 2662   | STOCK   | 104576 | 133730 | 11   | 72298                           | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 135746 | 11   | 81898                           | 4.000       | 4.000    | SR       |
| 2662   | STOCK   | 104576 | 135755 | 11   | 81998                           | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 136649 | 11   | 90198                           | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 137506 | 11   | 92398                           | 32.000      | .000     | SR       |
| 2662   | STOCK   | 104576 | 138449 | 11   | 100698                          | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 139214 | 11   | 102098                          | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 139701 | 11   | 103098                          | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 140845 | 11   | 111998                          | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 141896 | 11   | 120998                          | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 142889 | 11   | 123098                          | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 144210 | 11   | 12699                           | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 144609 | 11   | 20399                           | 32.000      | 32.000   | SR +     |
|        |         |        |        |      |                                 |             |          |          |

| P00153.05   | 1        |          |      | e Order<br>iver De | Inquiry<br>tail | 17:39:07 | 11/15/01 |  |
|-------------|----------|----------|------|--------------------|-----------------|----------|----------|--|
| Product 1   | 1000135  | GEN P    | OTTI | NG COMP            | OUND (2850FT)   |          |          |  |
| Vendor Disp | P.C      | . Rec No | Lin  | Date               | Received        | Billed   | Whse     |  |
| 2662 STO    | CK 10457 | 6 145717 | 11   | 22599              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 146572 | 11   | 31099              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 148048 | 11   | 40199              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 149042 | . 11 | 42099              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 150147 | 11   | 50599              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 150949 | 11   | 52099              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 152015 | 11   | 60999              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 153333 | 11   | 70799              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 155474 | 11   | 80599              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | K 10457  | 6 157407 | 11   | 83199              | 10.000          | 10.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 157621 | 11   | 90299              | 22.000          | 22.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 158589 | 11   | 91799              | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 160134 | 11   | 101199             | 32.000          | 32.000   | SR       |  |
| 2662 STO    | CK 10457 | 6 161625 | 11   | 110499             | 32.000          | 32.000   | SR +     |  |

F3=Exit

F7=Fold

F12=Previous

to LB Puls of potting

| PO0153.05                                                                                       | 1                                                                         |                                                                                                      | e Order In<br>iver Detai                              | •                                                                            | 17:39:07                                                          | 11/15/01                                       |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|
| Product 1                                                                                       | 000135                                                                    | GEN POTTI                                                                                            | NG COMPOU                                             | ND (2850FT)                                                                  |                                                                   |                                                |
| Vendor Disp<br>2662 STOCI<br>2662 STOCI<br>2662 STOCI<br>2662 STOCI<br>2662 STOCI<br>2662 STOCI | <pre>K 104576 K 104576 K 104576 K 104576 K 104576 K 104576 K 104576</pre> | Rec No Lin<br>163363 11<br>163545 11<br>164010 11<br>165109 11<br>166390 11<br>1663914 11            | 120299<br>120699<br>121499<br>10300<br>10400<br>12100 | Received<br>8.000<br>24.000<br>32.000<br>7.000<br>25.000<br>32.000<br>32.000 | Billed<br>8.000<br>24.000<br>32.000<br>7.000<br>25.000<br>32.000  | Whse<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR       |
| 2662 STOCE<br>2662 STOCE<br>2662 STOCE<br>2662 STOCE<br>2662 STOCE<br>2662 STOCE<br>2662 STOCE  | X 104576<br>X 104576<br>X 104576<br>X 104576<br>X 104576<br>X 104576      | 169014 11<br>169246 11<br>170505 11<br>172828 11<br>174486 11<br>176119 11<br>177383 11<br>178503 11 | 30200<br>31700<br>41400<br>50200<br>51800<br>60700    | 32.000<br>32.000<br>32.000<br>32.000<br>32.000<br>32.000<br>6.000            | 32.000<br>32.000<br>32.000<br>32.000<br>32.000<br>32.000<br>6.000 | SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR + |

F12=Previous

F7≈Fold

F3=Exit

| PO0153.05 1       | Purchase Order Inquiry<br>Receiver Detail | 17:39:07 11/15/01 |
|-------------------|-------------------------------------------|-------------------|
| Product 1000135   | GEN POTTING COMPOUND (2850FT)             |                   |
| Vendor Disp P.O.  | Rec No Lin Date Received                  | Billed Whse       |
| 2662 STOCK 104576 | 179064 11 63000 31.000                    | 31.000 SR         |
| 2662 STOCK 104576 | 179142 11 70500 58.000                    | 58.000 SR         |
| 2662 STOCK 104576 | 182056 11 80900 16.000                    | 16.000 SR         |
| 2662 STOCK 104576 | 182254 11 81000 16.000                    | 16.000 SR         |
| 2662 STOCK 104576 | 183248 11 82200 32.000                    | .000 SR           |
| 2662 STOCK 104576 | 184455 11 90500 5.000                     | 5.000 SR          |
| 2662 STOCK 104576 | 184601 11 90600 27.000                    | 27.000 SR         |
| 2662 STOCK 104576 | 185258 11 91300 8.000                     | 8.000 SR          |
| 2662 STOCK 104576 | 185420 11 91500 24.000                    | 24.000 SR         |
| 2662 STOCK 104576 | 186542 11 92800 32.000                    | 32.000 SR         |
| 2662 STOCK 104576 | 188232 11 101700 32.000                   | 32.000 SR         |
| 2662 STOCK 104576 | 188515 11 102300 32.000                   | 32.000 SR         |
| 2662 STOCK 104576 | 190323 11 111400 32.000                   | 32.000 SR         |
| 2662 STOCK 104576 | 191755 11 120200 16.000                   | 16.000 SR +       |
|                   |                                           |                   |
|                   |                                           |                   |

F12=Previous

F7=Fold

F3=Exit

| PO0153.05  | 1        |          |      | e Order<br>iver Det | Inquiry<br>ail | 17:39:07 | 11/15/01 |
|------------|----------|----------|------|---------------------|----------------|----------|----------|
| Product    | 1000135  | GEN P    | OTTI | NG COMPO            | UND (2850FT)   |          |          |
| Vendor Dis | •        |          |      | -                   | Received       | Billed   | Whse     |
| 2662 STC   | CK 10457 | 6 192273 | 11   | 120600              | 16.000         | 16.000   | SR       |
| 2662 STC   | CK 10457 | 6 194285 | 11   | 10301               | 32.000         | 32.000   | SR       |
| 2662 STC   | CK 10457 | 6 196562 | 11   | 12301               | 6.000          | 6.000    | SR       |
| 2662 STC   | CK 10457 | 6 196694 | 11   | 12401               | 26.000         | 26.000   | SR       |
| 2662 STO   | CK 10457 | 6 197720 | 11   | 20601               | 6.000          | 6.000    | SR       |
| 2662 STO   | CK 10457 | 6 197884 | 11   | 20701               | 26.000         | 26.000   | SR       |
| 2662 STO   | CK 10457 | 6 199927 | 11   | 22601               | 32.000         | 32.000   | SR       |
| 2662 STO   | CK 10457 | 6 202073 | 11   | 31601               | 32.000         | 32.000   | SR       |
| 2662 STO   | CK 10457 | 6 204963 | 11   | 41101               | 32.000         | 32.000   | SR       |
| 2662 STO   | CK 10457 | 6 206537 | 11   | 42501               | 32.000         | 32.000   | SR       |
| 2662 STO   | CK 10457 | 6 207522 | 11   | 50401               | 32.000         | 32.000   | SR       |
| 2662 STO   | CK 10457 | 6 210393 | 11   | 53001               | 32.000         | 32.000   | SR       |
| 2662 STO   |          |          | 11   | 61801               | 32.000         | 32.000   | SR       |
| 2662 STO   |          | •        |      | 62601               | 32.000         | 32.000   | SR +     |
| 2002 010   | C. 10457 | 0 213172 |      | 02001               | 32.000         | 32.000   | OIC T    |

| P0015  | 3.05    | 1      |        |     | e Order I<br>iver Deta |             | 17:39:07 | 11/15/01 |
|--------|---------|--------|--------|-----|------------------------|-------------|----------|----------|
| Prod   | uct 100 | 00135  | GEN PO | TTI | NG COMPOU              | ND (2850FT) |          |          |
| Vendor | Disp    | P.O.   | Rec No | Lin | Date                   | Received    | Billed   | Whse     |
| 2662   | STOCK   | 104576 | 215708 | 11  | 71901                  | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 217802 | 11  | 80701                  | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 219677 | 10  | 82401                  | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 221344 | 10  | 9110 <b>1</b>          | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 222520 | 10  | 92401                  | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 224419 | 10  | 101001                 | 32.000      | 32.000   | SR       |
| 2662   | STOCK   | 104576 | 226014 | 10  | 102501                 | 2.000       | 2.000    | SR       |
| 2662   | STOCK   | 104576 | 226015 | 11  | 102501                 | 30.000      | 30.000   | SR       |
| 2662   | STOCK   | 104576 | 227681 | 11  | 110801                 | 32.000      | 32.000   | SR       |

| PO0153                                                      | 3.05 1<br>FORY *                                                                  |                                                                        |                                                                                                                           |                                                                      | e Order<br>iver Det                                                                                                  |                                                                                              | 13:45:52                                                                                                    | 12/03/01                                                               |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Produ                                                       | ıct 1016                                                                          | 5424                                                                   | GEN P                                                                                                                     | ITTC                                                                 | NG COMPO                                                                                                             | OUND (2651MM)                                                                                |                                                                                                             |                                                                        |
| 2662<br>2662<br>2662<br>2662<br>2662<br>2662<br>2662<br>266 | STOCK MRA STOCK STOCK STOCK STOCK STOCK STOCK STOCK STOCK STOCK STOCK STOCK STOCK | P.O. 66075 66618 67085 69391 70747 70747 70747 70747 70747 70747 70747 | Rec No<br>7986<br>9339<br>10540<br>14651<br>19774<br>20558<br>21385<br>22334<br>23499<br>24687<br>25616<br>26423<br>27460 | 10<br>10<br>10<br>10<br>20<br>30<br>40<br>50<br>60<br>70<br>80<br>90 | Date<br>82492<br>92492<br>102292<br>21893<br>61193<br>63093<br>72793<br>82593<br>93093<br>110493<br>120293<br>123093 | Received 10.000 10.000 10.000 50.000 240.000 240.000 240.000 240.000 240.000 240.000 240.000 | Billed<br>.000<br>.000<br>.000<br>240.000<br>240.000<br>240.000<br>240.000<br>240.000<br>240.000<br>240.000 | Whse<br>SR<br>MA<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR |
| 2662                                                        | STOCK                                                                             | 70747                                                                  | 29248                                                                                                                     | 100                                                                  | 30994                                                                                                                | 240.000                                                                                      | 240.000                                                                                                     | SR +                                                                   |

| PO0153 | 3.05 TORY * | L             |        |      | e Order<br>iver Det | 13:45:52      | 12/03/01 |      |
|--------|-------------|---------------|--------|------|---------------------|---------------|----------|------|
| Produ  | uct 1016    | 5424          | GEN P  | OTTI | NG COMPO            | OUND (2651MM) |          |      |
| Vendor | Disp        | P.O.          | Rec No | Lin  | Date                | Received      | Billed   | Whse |
| 2662   | STOCK       | 82494         | 41329  | 20   | 103194              | 28.000        | .000     | SR   |
| 2662   | STOCK       | 82494         | 43006  | 30   | 112994              | 20.000        | 20.000   | SR   |
| 2662   | STOCK       | 82494         | 43252  | 30   | 120194              | 220.000       | .000     | SR   |
| 2662   | STOCK       | 82494         | 44851  | 50   | 122994              | 20.000        | 20.000   | SR   |
| 2662   | STOCK       | 82494         | 44871  | 50   | 123094              | 220.000       | 220.000  | SR   |
| 2662   | STOCK       | 82494         | 46365  | 40   | 12595               | 240.000       | 240.000  | SR   |
| 2662   | STOCK       | 82 <b>494</b> | 48714  | 60   | 22495               | 240.000       | 240.000  | SR   |
| 2662   | STOCK       | 82494         | 51851  | 20   | 40395               | 240.000       | 240.000  | SR   |
| 2662   | STOCK       | 93457         | 76690  | 10   | 31996               | 300.000       | 300.000  | SR   |
| 2662   | STOCK       | 94759         | 83098  | 10   | 62696               | 120.000       | 120.000  | SR   |
| 2662   | STOCK       | 94759         | 83376  | 10   | 70296               | 300.000       | 300.000  | SR   |
| 2662   | STOCK       | 96681         | 95010  | 10   | 120596              | 20.000        | 20.000   | SR   |
| 2662   | STOCK       | 98870         | 102475 | 10   | 31797               | 4.000         | 4.000    | SR   |
| 2662   | STOCK       | 98870         | 109206 | 10   | 62397               | 5.000         | 5.000    | SR + |
|        |             |               |        |      |                     |               |          |      |
|        |             |               |        |      |                     |               |          |      |

F3=Exit

| PO0153.0<br>* HISTOR |        | 1      |        |        | e Order<br>iver Det | Inquiry<br>ail | 13:45:52 | 12/03/01 |
|----------------------|--------|--------|--------|--------|---------------------|----------------|----------|----------|
| Product              | t 1016 | 6424   | GEN PO | 11 TTC | NG COMPO            | OUND (2651MM)  |          |          |
| Vendor Di            | isp    | P.O.   | Rec No | Lin    | Date                | Received       | Billed   | Whse     |
| 2662 ST              | -      | 98870  | 118524 | 10     | 102997              | 9.000          | 9.000    | SR       |
| 2662 ST              | госк   | 98870  | 118571 | 10     | 103097              | 1.000          | 1.000    | SR       |
| 2662 ST              | rock   | 98870  | 126997 | 10     | 32798               | 2.000          | 2.000    | SR       |
| 2662 ST              | rock   | 98870  | 128717 | 10     | 42098               | 5.000          | 5.000    | SR       |
| 2662 ST              | rock   | 98870  | 129989 | 20     | 51398               | 2.000          | 2.000    | SR       |
| 2662 SI              | rock   | 98870  | 130148 | 20     | 51498               | 6.000          | 6.000    | SR       |
| 2662 ST              | rock   | 98870  | 130991 | 20     | 60198               | 10.000         | 10.000   | SR       |
| 2662 ST              | rock   | 107602 | 136950 | 10     | 90898               | 5.000          | 5.000    | SR       |
| 2662 ST              | rock   | 107908 | 138773 | 10     | 101298              | 2.000          | 2.000    | SR       |

| PO0153.05 1  |        |        |      | e Order Inq<br>iver Detail | •        | 17:39:30 | 11/15/01 |
|--------------|--------|--------|------|----------------------------|----------|----------|----------|
| Product 1016 | 5424   | GEN P  | OTTI | NG COMPOUND                | (2651MM) |          |          |
| Vendor Disp  | P.O.   | Rec No | Lin  | Date                       | Received | Billed   | Whse     |
| 2662 STOCK   | 114122 | 172717 | 10   | 41300                      | 4.000    | 4.000    | SR       |
| 2662 STOCK   | 114122 | 177606 | 10   | 61400                      | 1.000    | 1.000    | SR       |
| 2662 STOCK   | 114122 | 178465 | 10   | 62300                      | 3.000    | 3.000    | SR       |
| 2662 STOCK   | 114122 | 179280 | 10   | 70600                      | 2.000    | .000     | SR       |
| 2662 STOCK   | 114122 | 180421 | 10   | 72000                      | 1.000    | 1.000    | SR       |
| 4280 STOCK   | 114175 | 182087 | 20   | 80900                      | 2.000    | 2.000    | SR       |
| 4280 STOCK   | 114175 | 183725 | 20   | 82500                      | 2.000    | 2.000    | SR       |
| 4280 STOCK   | 114175 | 187123 | 20   | 100400                     | 2.000    | 2.000    | SR       |
| 4280 STOCK   | 114175 | 187973 | 20   | 101300                     | 2.000    | 2.000    | SR       |
| 4280 STOCK   | 114175 | 192972 | 20   | 121800                     | 3.000    | 3.000    | SR       |
| 4280 STOCK   | 114175 | 195105 | 20   | 11001                      | 1.000    | 1.000    | SR       |
| 4280 STOCK   | 114175 | 196095 | 20   | 11801                      | 2.000    | 2.000    | SR       |
| 4280 STOCK   | 114175 | 201084 | 20   | 30801                      | 2.000    | 2.000    | SR       |
| 4280 STOCK   | 114175 | 206149 | 20   | 42301                      | 2.000    | 2.000    | SR +     |

F3=Exit F7=Fold

F12=Previous

to LB Bails of potting

MOR 001495

| P00153 | 3.05    | 1      |        |      | e Order<br>iver Det |              | 17:39:30 | 11/15/01 |
|--------|---------|--------|--------|------|---------------------|--------------|----------|----------|
| Produ  | ıct 101 | 6424   | GEN PO | OTTI | NG COMPO            | UND (2651MM) |          |          |
| Vendor | Disp    | P.O.   | Rec No | Lin  | Date                | Received     | Billed   | Whse     |
| 4280   | STOCK   | 114175 | 208941 | 20   | 51601               | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 211703 | 20   | 61201               | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 215463 | 20   | 71701               | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 217901 | 20   | 80801               | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 219009 | 20   | 82001               | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 220096 | 20   | 83001               | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 221305 | 20   | 91101               | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 222737 | 20   | 92601               | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 225379 | 20   | 101801              | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 226369 | 20   | 102901              | 1.000        | 1.000    | SR       |
| 4280   | STOCK   | 114175 | 226699 | 20   | 103101              | 1.000        | 1.000    | SR       |

| PO0153.0<br>* HISTOR |       |       |        |       | e Order<br>iver Det | 13:46:13 | 12/03/01 |      |
|----------------------|-------|-------|--------|-------|---------------------|----------|----------|------|
| Product              | 10153 | 300   | GEN C  | ATAL: | YST (231            | LV)      |          |      |
| Vendor Di            | .sp   | P.O.  | Rec No | Lin   | Date                | Received | Billed   | Whse |
| 2662 ST              | OCK   | 20284 | 5391   | 20    | 61892               | 12.000   | .000     | SR   |
| 2662 ST              | OCK   | 61635 | 9338   | 130   | 92492               | 24.000   | .000     | SR   |
| 2662 MR              | :A    | 61635 | 10077  | 130   | 100892              | 16.000   | .000     | MA   |
| 2662 MR              | RA.   | 61635 | 10078  | 140   | 100892              | 8.000    | .000     | MA   |
| 2662 ST              | 'OCK  | 61635 | 12476  | 140   | 121892              | 17.000   | .000     | SR   |
| 2662 ST              | 'OCK  | 61635 | 12972  | 150   | 10693               | 17.000   | .000     | SR   |
| 2662 ST              | 'OCK  | 61635 | 13225  | 160   | 11493               | 17.000   | .000     | SR   |
| 2662 ST              | 'OCK  | 61635 | 14091  | 180   | 20493               | 17.000   | .000     | SR   |
| 2662 ST              | 'OCK  | 61635 | 14652  | 170   | 21893               | 17.000   | .000     | SR   |
| 2662 ST              | 'OCK  | 61635 | 15691  | 190   | 31093               | 17.000   | .000     | SR   |
| 2662 ST              | OCK   | 61635 | 16426  | 140   | 32593               | 15.000   | .000     | SR   |
| 2662 ST              | OCK   | 61635 | 16427  | 200   | 32593               | 2.000    | .000     | SR   |
| 2662 ST              | OCK   | 61635 | 18081  | 221   | 43093               | 17.000   | 17.000   | SR   |
| 2662 ST              | OCK   | 61635 | 18614  | 221   | 51193               | 17.000   | .000     | SR + |
|                      |       | •     |        |       |                     |          |          |      |
|                      |       |       |        |       |                     |          |          |      |
|                      |       |       |        |       |                     |          |          |      |

F3=Exit

| Product 1015300         GEN CATALYST (23LV)           Vendor Disp         P.O.         Rec No Lin         Date         Received         Billed         Whse           2662 STOCK         61635         18947 221 52093         102.000         .000         SR           2662 STOCK         61635         18948 310 52093         34.000         .000         SR           2662 STOCK         61635         19306 320 52893         34.000         .000         SR           2662 STOCK         61635         19364 310 60193         102.000         .000         SR           2662 STOCK         61635         19972 320 61693         102.000         .000         SR           2662 STOCK         61635         19973 330 61693         34.000         .000         SR           2662 STOCK         61635         22694 350 90393         136.000         136.000         SR           2662 STOCK         72577         22952 10 91393         80.000         80.000         SR | PO0153.05 1<br>* HISTORY *                                                                                                                                                                                                                                                                               | Purchase Order Inquiry<br>Receiver Detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13:46:13 12/03/01                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 2662 STOCK       61635       18947 221 52093       102.000       .000       SR         2662 STOCK       61635       18948 310 52093       34.000       .000       SR         2662 STOCK       61635       19306 320 52893       34.000       .000       SR         2662 STOCK       61635       19364 310 60193       102.000       .000       SR         2662 STOCK       61635       19972 320 61693       102.000       .000       SR         2662 STOCK       61635       19973 330 61693       34.000       .000       SR         2662 STOCK       61635       22694 350 90393       136.000       136.000       SR                                                                                                                                                                                                                                                                                                                                                            | Product 1015300                                                                                                                                                                                                                                                                                          | GEN CATALYST (23LV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                      |
| 2662 STOCK 61635 23661 370 100693 136.000 136.000 SR<br>2662 STOCK 72630 24787 130 110893 136.000 136.000 SR<br>2662 STOCK 72630 25779 140 120893 136.000 136.000 SR<br>2662 STOCK 72630 26550 150 10594 136.000 136.000 SR<br>2662 STOCK 75522 29368 20 31194 200.000 200.000 SR<br>2662 REJ 75522 29368 20 31194 480.000 480.000 RJ +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2662 STOCK 61635<br>2662 STOCK 61635<br>2662 STOCK 61635<br>2662 STOCK 61635<br>2662 STOCK 61635<br>2662 STOCK 61635<br>2662 STOCK 61635<br>2662 STOCK 72577<br>2662 STOCK 72577<br>2662 STOCK 72630<br>2662 STOCK 72630<br>2662 STOCK 72630<br>2662 STOCK 72630<br>2662 STOCK 72630<br>2662 STOCK 72630 | 18947       221       52093       102.000         18948       310       52093       34.000         19306       320       52893       34.000         19364       310       60193       102.000         19972       320       61693       102.000         19973       330       61693       34.000         22694       350       90393       136.000         22952       10       91393       80.000         23661       370       100693       136.000         24787       130       110893       136.000         25779       140       120893       136.000         26550       150       10594       136.000         29368       20       31194       200.000 | .000 SR<br>.000 SR<br>.000 SR<br>.000 SR<br>.000 SR<br>.000 SR<br>136.000 SR<br>136.000 SR<br>136.000 SR<br>136.000 SR<br>136.000 SR |

| PO0153.05 : * HISTORY *  | L                              |                |          | e Order<br>Lver Det | 13:46:13          | 12/03/01 |          |
|--------------------------|--------------------------------|----------------|----------|---------------------|-------------------|----------|----------|
| Product 1015             | 5300                           | GEN CA         | TAL      | (ST (23I            | LV)               |          |          |
| Vendor Disp              | P.O.                           | Rec No         |          | Date                | Received          | Billed   | Whse     |
| 2662 STOCK               | 76025                          | 36800          | 30       | 81294               | 7.000             | 7.000    | SR       |
| 2662 STOCK               | 76025                          | 37111<br>40199 | 30<br>20 | 81894<br>101194     | 120.000<br>11.000 | 120.000  | SR<br>SR |
| 2662 STOCK<br>2662 STOCK | 802 <b>00</b><br>802 <b>00</b> | 40199          |          | 101194              | 2.000             | 2.000    | SR       |
| 2662 STOCK               | 76025                          | 41327          | 40       | 101/94              | 142.000           | 120.000  | SR       |
| 2662 STOCK               | 76025                          | 46044          | 40       | 11995               | 80.000            | 80.000   | SR       |
| 2662 STOCK               | 76025                          | 46759          | 40       | 13195               | 168.000           | 168.000  | SR       |
| 2662 STOCK               | 76025                          | 49161          | 40       | 30395               | 160.000           | 160.000  | SR       |
| 2662 QUEST.              | 85279                          | 51642          | 10       | 33095               | 60.000            | 20.000   | Q        |
| 2662 STOCK               | 76025                          | 52529          | 40       | 41095               | 400.000           | 400.000  | SR       |
| 2662 STOCK               | 85279                          | 52812          | 10       | 41295               | 20.000            | .000     | SR       |
| 2662 STOCK               | 76025                          | 59752          | 40       | 71795               | 20.000            | 20.000   | SR       |
| 2662 STOCK               | 76025                          | 64930          | 40       | 91895               | 80.000            | 80.000   | SR       |
| 2662 STOCK               | 76025                          | 68746          | 40       | 111395              | 80.000            | 80.000   | SR +     |
|                          |                                |                |          |                     |                   |          |          |
|                          |                                |                |          |                     |                   |          |          |
|                          |                                |                |          |                     |                   |          |          |

F3=Exit

| PO0153.05<br>* HISTORY *                                                                                                                                   | 1                                                                    |                                                                                                        |                                                     | order<br>ver Det                                                                               | 13:46:13                                                                   | 12/03/01                                                                                         |                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Product 10                                                                                                                                                 | 15300                                                                | GEN CA                                                                                                 | TALY                                                | ST (23L                                                                                        | V)                                                                         |                                                                                                  |                                                      |
| Vendor Disp 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK 2662 STOCK | 76025<br>76025<br>76025<br>76025<br>76025<br>98040<br>98040<br>98040 | Rec No 1<br>75609<br>75610<br>76525<br>76526<br>82402<br>83176<br>104087<br>104180<br>108555<br>109205 | Lin<br>30<br>40<br>30<br>40<br>40<br>40<br>10<br>10 | Date<br>22896<br>22896<br>31596<br>31596<br>61496<br>62696<br>40497<br>40797<br>61297<br>62397 | Received 20.000 140.000 29.000 91.000 304.000 350.000 10.000 70.000 80.000 | Billed<br>20.000<br>140.000<br>29.000<br>91.000<br>304.000<br>10.000<br>.000<br>80.000<br>30.000 | Whse<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR |
| 2662 STOCK<br>2662 STOCK<br>2662 STOCK<br>2662 STOCK                                                                                                       | 101401<br>101401<br>101401                                           | 112813<br>119777<br>119982<br>120412                                                                   | 10<br>20<br>20                                      | 81397<br>120197<br>120597<br>121297                                                            | 25.000<br>2.000<br>15.000<br>15.000                                        | 25.000<br>2.000<br>15.000<br>15.000                                                              | SR<br>SR<br>SR<br>SR +                               |

F3=Exit

| PO0153.  | 05 1   |        |        |       | Order<br>ver Det | Inquiry<br>ail | 16:53:30 | 12/03/01 |
|----------|--------|--------|--------|-------|------------------|----------------|----------|----------|
| Produc   | t 1015 | 300    | GEN C  | ATALY | ST (231          | .V)            |          |          |
| Vendor D | isp    | P.O.   | Rec No | Lin   | Date             | Received       | Billed   | Whse     |
| 2662 S   | TOCK   | 104576 | 122034 | 20    | 11298            | 15.000         | 15.000   | SR       |
| 2662 S   | TOCK   | 104576 | 122041 | 20    | 11398            | 7.000          | 7.000    | SR       |
| 2662 S   | TOCK   | 104576 | 124030 | 20    | 21298            | 21.000         | 21.000   | SR       |
| 2662 S   | TOCK   | 104576 | 124180 | 20    | 21698            | 60.000         | 60.000   | SR       |
| 2662 S   | TOCK   | 104576 | 128496 | 21    | 41698            | 32.000         | 32.000   | SR       |
| 2662 S   | TOCK   | 104576 | 130772 | 21    | 52798            | 7.000          | 7.000    | SR       |
| 2662 S'  | TOCK   | 104576 | 130775 | 21    | 52898            | 21.000         | 21.000   | SR       |
| 2662 S'  | TOCK   | 104576 | 131790 | 21    | 61798            | 24.000         | 24.000   | SR       |
| 2662 S   | TOCK   | 104576 | 132719 | 21    | 70798            | 16.000         | 16.000   | SR       |
| 2662 S   | TOCK   | 104576 | 133134 | 21    | 71498            | 8.000          | 8.000    | SR       |
| 2662 S'  | TOCK   | 104576 | 133730 | 21    | 72298            | 32.000         | 32.000   | SR       |
| 2662 S'  | TOCK   | 104576 | 135755 | 21    | 81998            | 16.000         | 16.000   | SR       |
| 2662 S   | TOCK   | 104576 | 136659 | 21    | 90198            | 16.000         | 16.000   | SR       |
| 2662 S   | TOCK   | 104576 | 137493 | 21    | 92298            | 8.000          | 8.000    | SR +     |
|          |        |        |        |       |                  |                |          |          |

F12=Previous

F3=Exit

| PO0153 | .05    | 1      |        |       | e Order<br>iver Det | Inquiry<br>ail | 16:53:30 | 12/03/01 |
|--------|--------|--------|--------|-------|---------------------|----------------|----------|----------|
| Produ  | ct 101 | 5300   | GEN CA | 'LATA | YST (231            | .V)            |          |          |
| Vendor | Disp   | P.O.   | Rec No | Lin   | Date                | Received       | Billed   | Whse     |
| 2662   | STOCK  | 104576 | 137506 | 21    | 92398               | 8.000          | 8.000    | SR       |
| 2662   | STOCK  | 104576 | 138449 | 21    | 100698              | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 138866 | 21    | 101498              | 16.000         | .000     | SR       |
| 2662   | STOCK  | 104576 | 139214 | 21    | 102098              | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 139701 | 21    | 103098              | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 140845 | 21    | 111998              | 16.000         | .000     | SR       |
| 2662   | STOCK  | 104576 | 141896 | 21    | 120998              | 32.000         | 32.000   | SR       |
| 2662   | STOCK  | 104576 | 142889 | 21    | 123098              | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 144210 | 21    | 12699               | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 144609 | 21    | 20399               | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 145717 | 21    | 22599               | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 146572 | 21    | 31099               | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 148048 | 21    | 40199               | 16.000         | 16.000   | SR       |
| 2662   | STOCK  | 104576 | 149042 | 21    | 42099               | 16.000         | 16.000   | SR +     |

| PO0153.05   | 1      |        |       | e Order<br>iver Det | Inquiry<br>ail | 17:39:45 | 11/15/01 |
|-------------|--------|--------|-------|---------------------|----------------|----------|----------|
| Product 10  | 15300  | GEN C  | ATAL: | YST (23)            | Δ)             |          |          |
| Vendor Disp | P.O.   | Rec No | Lin   | Date                | Received       | Billed   | Whse     |
| 2662 STOCK  | 104576 | 150147 | 21    | 50599               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 150949 | 21    | 52099               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 152015 | 21    | 60999               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 153333 | 21    | 70799               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 155474 | 21    | 80599               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 157621 | 21    | 90299               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 158589 | 21    | 91799               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 160134 | 21    | 101199              | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 161625 | 21    | 110499              | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 163363 | 21    | 120299              | 4.000          | 4.000    | SR       |
| 2662 STOCK  | 104576 | 163545 | 21    | 120699              | 12.000         | 12.000   | SR       |
| 2662 STOCK  | 104576 | 164010 | 21    | 121499              | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 165109 | 21    | 10300               | 4.000          | 4.000    | SR       |
| 2662 STOCK  | 104576 | 165190 | 21    | 10400               | 12.000         | 12.000   | SR +     |

F3=Exit

F7=Fold

F12=Previous

PLB containers of Pottpy hardener.

| PO0153.05   | 1      |        |       | Order :  | • •        | 17:39:45 | 11/15/01 |
|-------------|--------|--------|-------|----------|------------|----------|----------|
| Product 101 | 5300   | GEN CA | ATALY | ST (23L) | <b>V</b> ) |          |          |
| Vendor Disp | P.O.   | Rec No | Lin   | Date     | Received   | Billed   | Whse     |
| 2662 STOCK  | 104576 | 166390 | 21    | 12100    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 168014 | 21    | 21500    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 169246 | 21    | 30200    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 170505 | 21    | 31700    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 172828 | 21    | 41400    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 174486 | 21    | 50200    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 174688 | 21    | 50300    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 176119 | 21    | 51800    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 177383 | 21    | 60700    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 179065 | 21    | 63000    | 32.000     | 32.000   | SR       |
| 2662 STOCK  | 104576 | 179141 | 21    | 70500    | 16.000     | 16.000   | SR       |
| 2662 STOCK  | 104576 | 182057 | 21    | 80900    | 16.000     | .000     | SR       |
| 2662 STOCK  | 104576 | 182255 | 21    | 81000    | 16.000     | .000     | SR       |
| 2662 STOCK  | 104576 | 183249 | 21    | 82200    | 16.000     |          | SR +     |

F12=Previous

F7=Fold

F3=Exit

| PO0153.05   | 1      |        |      | e Order<br>iver Det | Inquiry<br>ail | 17:39:45 | 11/15/01 |
|-------------|--------|--------|------|---------------------|----------------|----------|----------|
| Product 101 | 5300   | GEN C  | ATAL | (ST (23I            | ra)            |          |          |
| Vendor Disp | P.O.   | Rec No | Lin  | Date                | Received       | Billed   | Whse     |
| 2662 STOCK  | 104576 | 184454 | 21   | 90500               | 4.000          | 4.000    | SR       |
| 2662 STOCK  | 104576 | 184602 | 21   | 90600               | 12.000         | 12.000   | SŘ       |
| 2662 STOCK  | 104576 | 185260 | 21   | 91400               | 4.000          | 4.000    | SR       |
| 2662 STOCK  | 104576 | 185421 | 21   | 91500               | 12.000         | 12.000   | SR       |
| 2662 STOCK  | 104576 | 186541 | 21   | 92800               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 188231 | 21   | 101700              | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 188514 | 21   | 102300              | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 190322 | 21   | 111400              | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 192272 | 21   | 120600              | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 194284 | 21   | 10301               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 196693 | 21   | 12401               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 197883 | 21   | 20701               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 199928 | 21   | 22601               | 16.000         | 16.000   | SR       |
| 2662 STOCK  | 104576 | 202074 | 21   | 31601               | 16.000         | 16.000   | SR +     |
|             |        |        |      |                     |                |          |          |

F3=Exit

| PO0153.05 | 1 | Purchase Order Inquiry | 17:39:45 | 11/15/01 |
|-----------|---|------------------------|----------|----------|
|           |   | Receiver Detail        |          |          |

Product 1015300 GEN CATALYST (23LV) P.O. Rec No Lin Date Received Billed Vendor Disp Whse 2662 STOCK 104576 204962 21 41101 16.000 16.000 SR 2662 STOCK 104576 206536 21 42501 16.000 16.000 SR 2662 STOCK 104576 207523 21 50401 16.000 16.000 2662 STOCK 104576 210394 21 212254 21 16.000 53001 16.000 SR 2662 STOCK 104576 61801 16.000 16.000 SR 2662 STOCK 104576 213173 20 62601 16.000 16.000 SR 2662 STOCK 104576 215737 20 71901 16.000 16.000 2662 STOCK 104576 2662 STOCK 104576 217803 20 217804 21 80701 1.000 1.000 SR 80701 15.000 15.000 SR 2662 STOCK 104576 219678 21 82401 16.000 16.000 SR 221345 21 91101 2662 STOCK 104576 16.000 16.000 SR 222521 21 92401 224420 21 101001 2662 STOCK 104576 2662 STOCK 104576 16.000 16.000 SR 16.000 16.000 SR 2662 STOCK 104576 226016 21 102501 16.000 16.000 SR +

PO0153.05 1

Purchase Order Inquiry 17:39:45 11/15/01 Receiver Detail

Product 1015300

GEN CATALYST (23LV)

endor Disp P.O. Rec No Lin Date Received Billed Whse 2662 STOCK 104576 227682 21 110801 16.000 16.000 SR Vendor Disp

F3=Exit

F7=Fold

PO0153.05 1 Purchase Order Inquiry 17:40:07 11/15/01 Receiver Detail

Product 1296389 GEN SEALANT (LOCTITE 5900) 5GA

 Vendor Disp
 P.O.
 Rec No Lin Date
 Received
 Billed Whse

 6888 STOCK 119628
 211985 10 61401 1.000 1.000 SR

 6888 STOCK 119628
 222503 10 92401 1.000 1.000 SR

 6888 STOCK 119628
 223724 10 100401 1.000 1.000 SR

 6888 STOCK 119628
 226025 10 102501 1.000 1.000 SR

F3=Exit

F7=Fold

F12=Previous

5 gallon pail of Loctite
5 900

MOR 001508

| PO0153.05<br>* HISTORY | 1        | nquiry<br>il | 17:40:40  | 11/15/01 |        |      |
|------------------------|----------|--------------|-----------|----------|--------|------|
| Product 1              | 090314   | GEN DIBAS    | SIC ESTER |          |        |      |
| Vendor Disp            | P.O.     | Rec No Li    | n Date    | Received | Billed | Whse |
| 1376 STOC              | K 69281  | 14646 10     | 21893     | 55.000   | .000   | SR   |
| 1376 STOC              | K 74785  | 28180 10     | 21094     | 1.000    | 1.000  | SR   |
| 1376 STOCI             | K 83892  | 46583 10     | 12795     | 2.000    | 2.000  | SR   |
| 1376 STOC              | K 93727  | 78289 10     | 41296     | 1.000    | 1.000  | SR   |
| 1376 STOCI             | K 106416 | 129772 10    | 50898     | 1.000    | 1.000  | SR   |
|                        |          |              |           |          |        |      |

F3=Exit

F7=Fold

F12=Previous

02/17/93 received as 55 Ballons All raceipts after are Drams (55 gallon) PO0153.05 1

Purchase Order Inquiry 17:40:27 11/15/01 Receiver Detail

Product 1090314

GEN DIBASIC ESTER

Vendor Disp 1376 STOCK 120560

P.O. Rec No Lin Date 120560 226491 10 103001 226491 10 103001

Received Billed Whse 1.000 SR

F3=Exit

F7=Fold

F12=Previous

5 5 gallon AVIAM of Dibasic Ester

MOR 001510

| PO0153               | 3.05 1<br>TORY *        | L                       |                         |                | e Order<br>iver Det      | 13:47:16                   | 12/03/01                             |                |
|----------------------|-------------------------|-------------------------|-------------------------|----------------|--------------------------|----------------------------|--------------------------------------|----------------|
| Produ                | uct 1090                | 280                     | GEN A                   | COH            | OL                       |                            |                                      |                |
| Vendor               | Disp                    | P.O.                    | Rec No                  | Lin            |                          | Received                   | Billed                               | Whse           |
| 6577                 | STOCK                   | 67640                   | 11403                   | 10             |                          | 20.000                     | .000                                 | SR             |
| 6577                 | STOCK                   | 69449                   | 13002                   | 10             |                          | 20.000                     | .000                                 | SR             |
| 6577                 | STOCK                   | 69284                   | 14541                   | 10             | 21693                    | 20.000                     | .000                                 | SR             |
| 6577                 | STOCK                   | 69648                   | 15570                   | 10             | 30893                    | 20.000                     | 20.000                               | SR             |
| 6577                 | STOCK                   | 69647                   | 16775                   | 10             | 40193                    | 20.000                     | 20.000                               | SR             |
| 6577                 | STOCK                   | 69647                   | 17985                   | 20             | 43093                    | 20.000                     | 20.000                               | SR             |
| 6577                 | STOCK                   | 69647                   | 19432                   | 30             | 60293                    | 20.000                     | 20.000                               | SR             |
| 6577                 | STOCK                   | 69647                   | 20590                   | 40             | 70193                    | 20.000                     | 20.000                               | SR             |
| 6577<br>6577<br>6577 | STOCK<br>STOCK<br>STOCK | 69647<br>69647<br>69647 | 21598<br>22604<br>23537 | 50<br>60<br>70 | 80293<br>90193<br>100193 | 20.000<br>20.000<br>20.000 | 20.000<br>20.000<br>20.000<br>20.000 | SR<br>SR<br>SR |
| 6577                 | STOCK                   | 696 <b>4</b> 7          | 24563                   | 80             | 110193                   | 20.000                     | 20.000                               | SR             |
| 6577                 | STOCK                   | 696 <b>4</b> 7          | 25547                   | 90             | 120193                   | 20.000                     | 20.000                               | SR             |
| 6577                 | STOCK                   | 77424                   | 34407                   | 10             | 63094                    | 20.000                     | 20.000                               | SR +           |

F3=Exit

PO0153.05 1 Purchase Order Inquiry
\* HISTORY \* Receiver Detail

6577 STOCK

96685

13:47:16 12/03/01

50.000

SR +

GEN ALCOHOL Product 1090280 Rec No Lin Date Received Billed Vendor Disp P.O. Whse 6577 STOCK 82410 40872 10 102494 20.000 20.000 SR 20.000 45532 10 11195 SR 83391 20.000 6577 STOCK 6.000 6577 STOCK 47951 10 21795 SR 84335 6.000 49179 10 30395 50.000 6577 STOCK 84610 50.000 SR 6577 STOCK 88224 58373 20 62895 40.000 40.000 SR 6577 STOCK 88224 58374 10 62895 10.000 10.000 SR 64177 90895 50.000 6577 STOCK 90297 10 50.000 SR 6577 STOCK 70685 10 121595 5.000 5.000 91805 SR 6577 STOCK 72010 10 10596 50.000 50.000 SR 91829 75861 10 30496 50.000 50.000 SR 6577 STOCK 93458 6577 STOCK 94715 81950 10 60796 40.000 40.000 SR 87810 10 90596 10.000 10.000 SR 6577 STOCK 95102 6577 STOCK 87852 10 90596 40.000 40.000 95102 SR

F3=Exit F7=Fold F12=Previous

10 111996

50.000

93751

| PO0153.<br>* HISTO |         | 1      |        |       | e Order<br>iver Det | 13:47:16 | 12/03/01 |      |
|--------------------|---------|--------|--------|-------|---------------------|----------|----------|------|
| Produc             | ct 1090 | 0280   | GEN A  | LCOHO | OL                  |          |          |      |
| Vendor D           | Disp    | P.O.   | Rec No | Lin   | Date                | Received | Billed   | Whse |
| 9855 S             | -       | 103964 | 119425 | 10    | 112097              | 15.000   | 15.000   | SR   |
| 9855 S             | STOCK   | 104763 | 123628 | 30    | 20498               | 20.000   | 20.000   | SR   |
| 9855 S             | STOCK   | 103964 | 124856 | 10    | 22598               | 65.000   | 65.000   | SR   |
| 9855 S             | STOCK   | 106285 | 128420 | 10    | 41698               | 5.000    | 5.000    | SR   |
| 9855 S             | STOCK   | 103964 | 140747 | 20    | 111898              | 2.000    | 2.000    | SR   |
| 9855 S             | STOCK   | 103964 | 142580 | 20    | 122298              | 2.000    | 2.000    | SR   |
| 9855 S             | STOCK   | 103964 | 143811 | 20    | 11899               | 2.000    | 2.000    | SR   |
|                    |         |        |        |       |                     |          |          |      |

| PO0153                                                       | 3.05                                                        | 1                                                                                                     |                                                                                                                                |                                            | Order<br>ver Det                                                                                                 | Inquiry<br>ail                                                         | 17:40:57                                                                                           | 11/15/01                                                         |
|--------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Produ                                                        | ct 109                                                      | 90280                                                                                                 | GEN A                                                                                                                          | LCOHO                                      | L                                                                                                                |                                                                        |                                                                                                    |                                                                  |
| 9855<br>9855<br>9855<br>9855<br>9855<br>9855<br>9855<br>9855 | STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK<br>STOCK | P.O.<br>97505<br>97505<br>97505<br>109176<br>109176<br>109176<br>109176<br>109176<br>109176<br>109176 | Rec No<br>102266<br>105353<br>106608<br>144812<br>147359<br>148277<br>149962<br>150841<br>152902<br>154308<br>155416<br>156342 | Lin 10 10 10 10 10 10 10 10 10 10 10 10 10 | Date<br>31397<br>42197<br>50897<br>20899<br>32399<br>40699<br>50499<br>51899<br>72099<br>80599<br>81799<br>83099 | Received 25.000 50.000 2.000 2.000 2.000 1.000 1.000 1.000 1.000 1.000 | Billed<br>25.000<br>5.000<br>50.000<br>2.000<br>2.000<br>2.000<br>1.000<br>1.000<br>1.000<br>2.000 | Whse<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR<br>SR |
|                                                              | STOCK                                                       | 109176                                                                                                | 157859                                                                                                                         | 10                                         | 90799                                                                                                            | 1.000                                                                  | 1.000                                                                                              | SR<br>SR +                                                       |

F3=Exit

F7=Fold

F12=Previous

5 gallon Pails of Alcahol

| PO0153.  | .05    | 1      |        |     | e Order<br>iver Det | Inquiry<br>ail | 17:40:57 | 11/15/01 |
|----------|--------|--------|--------|-----|---------------------|----------------|----------|----------|
| Produc   | ct 109 | 0280   | GEN A  | COH | OL                  |                |          |          |
| Vendor I | Disp   | P.O.   | Rec No | Lin | Date                | Received       | Billed   | Whse     |
| 9855 8   | STOCK  | 109176 | 158837 | 10  | 92199               | 1.000          | 1.000    | SR       |
| 9855 \$  | STOCK  | 109176 | 160238 | 10  | 101299              | 1.000          | 1.000    | SR       |
| 9855 9   | STOCK  | 109176 | 161520 | 10  | 110399              | 2.000          | 2.000    | SR       |
| 9855 \$  | STOCK  | 109176 | 162236 | 10  | 111599              | 1.000          | 1.000    | SR       |
| 9855 \$  | STOCK  | 109176 | 162237 | 10  | 111599              | 1.000          | 1.000    | SR       |
| 9855 8   | STOCK  | 109176 | 164333 | 10  | 122199              | 1.000          | 1.000    | SR       |
| 9855 \$  | STOCK  | 109176 | 165204 | 10  | 10400               | 1.000          | 1.000    | SR       |
| 9855 9   | STOCK  | 109176 | 166059 | 10  | 11800               | 1.000          | 1.000    | SR       |
| 9855 9   | STOCK  | 109176 | 166556 | 10  | 12500               | 1.000          | 1.000    | SR       |
| 9855 9   | STOCK  | 109176 | 167527 | 10  | 20800               | 1.000          | 1.000    | SR       |
| 9855 9   | STOCK  | 109176 | 167907 | 10  | 21400               | 1.000          | 1.000    | SR       |
| 9855 9   | STOCK  | 109176 | 170172 | 10  | 3150 <b>0</b>       | 2.000          | 2.000    | SR       |
| 9855 9   | STOCK  | 109176 | 170598 | 30  | 32100               | 1.000          | 1.000    | SR       |
| 9855 8   | STOCK  | 109176 | 173276 | 30  | 41900               | 1.000          | 1.000    | SR +     |
|          |        |        |        |     |                     |                |          |          |

| PO0153.         | 05 1 | L      |        |     | e Order<br>iver Det | Inquiry<br>Cail | 17:40:57 | 11/15/01 |
|-----------------|------|--------|--------|-----|---------------------|-----------------|----------|----------|
| Product 1090280 |      |        | GEN A  | COH | OL                  |                 |          |          |
| Vendor D        | isp  | P.O.   | Rec No | Lin | Date                | Received        | Billed   | Whse     |
| 9855 S          | TOCK | 109176 | 174089 | 30  | 42800               | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 176038 | 30  | 51700               | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 177337 | 30  | 60700               | 2.000           | 2.000    | SR       |
| 9855 S          | TOCK | 109176 | 178140 | 30  | 62200               | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 180091 | 30  | 71400               | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 181550 | 30  | 80200               | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 182646 | 30  | 81600               | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 184133 | 30  | 83000               | 2.000           | 2.000    | SR       |
| 9855 S          | TOCK | 109176 | 184661 | 30  | 90700               | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 185583 | 30  | 91800               | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 188264 | 30  | 101700              | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 188265 | 30  | 101700              | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 189924 | 30  | 110700              | 1.000           | 1.000    | SR       |
| 9855 S          | TOCK | 109176 | 190288 | 30  | 111300              | 1.000           | 1.000    | SR +     |
|                 |      |        |        |     |                     |                 |          |          |

F12=Previous

F7=Fold

F3=Exit

| PO0153          | 3.05  | 1      |        |      | e Order<br>iver Det | Inquiry<br>ail | <b>17:40</b> :57 | 11/15/ | 01 |
|-----------------|-------|--------|--------|------|---------------------|----------------|------------------|--------|----|
| Product 1090280 |       |        | GEN A  | LCOH | OL                  |                |                  |        |    |
| Vendor          | Disp  | P.O.   | Rec No | Lin  | Date                | Received       | Billed           | Whse   |    |
| 9855            | STOCK | 109176 | 190634 | 30   | 111700              | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 190635 | 30   | 111700              | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 191007 | . 30 | 112400              | 2.000          | 2.000            | SR     |    |
| 9855            | STOCK | 109176 | 194094 | 30   | 10201               | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 194811 | 30   | 10801               | 2.000          | 2.000            | SR     |    |
| 9855            | STOCK | 109176 | 197430 | 30   | 20101               | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 198836 | 30   | 21501               | 2.000          | 2.000            | SR     |    |
| 9855            | STOCK | 109176 | 200077 | 30   | 22701               | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 200399 | 30   | 30101               | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 201974 | 40   | 31501               | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 202505 | 40   | 32001               | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 203983 | 40   | 40301               | 2.000          | 2.000            | SR     |    |
| 9855            | STOCK | 109176 | 205663 | 40   | 41701               | 1.000          | 1.000            | SR     |    |
| 9855            | STOCK | 109176 | 207292 | 40   | 50201               | 1.000          | 1.000            | SR     | +  |
|                 |       |        |        |      |                     |                |                  |        |    |

F12=Previous

F7≈Fold

F3=Exit

| PO0153.05   | 1      |        |       | Order<br>ver Det | Inquiry<br>ail | 17:40:57 | 11/15/01 |
|-------------|--------|--------|-------|------------------|----------------|----------|----------|
| Product 109 | 0280   | GEN AI | ССОНО | ·L               |                |          |          |
| Vendor Disp | P.O.   | Rec No | Lin   | Date             | Received       | Billed   | Whse     |
| 9855 STOCK  | 109176 | 207811 | 40    | 50701            | 1.000          | 1.000    | SR       |
| 9855 STOCK  | 109176 | 208900 | 40    | 51501            | 1.000          | 1.000    | SR       |
| 9855 STOCK  | 109176 | 209517 | 40    | 52101            | 1.000          | 1.000    | SR       |
| 9855 STOCK  | 109176 | 210470 | 40    | 53001            | 1.000          | 1.000    | SR       |
| 9855 STOCK  | 109176 | 211795 | 40    | 61301            | 1.000          | 1.000    | SR       |
| 9855 STOCK  | 109176 | 212686 | 40    | 62001            | 2.000          | 2.000    | SR       |
| 9855 STOCK  | 109176 | 213998 | 40    | 70301            | 1.000          | 1.000    | SR       |
| 9855 STOCK  | 109176 | 215538 | 40    | 71801            | 2.000          | 2.000    | SR       |
| 9855 STOCK  | 109176 | 217414 | 40    | 80201            | 2.000          | 2.000    | SR       |
| 9855 STOCK  | 109176 | 218393 | 40    | 81301            | 2.000          | 2.000    | SR       |
| 9855 STOCK  | 109176 | 218779 | 40    | 81601            | 3.000          | 3.000    | SR       |
| 9855 STOCK  | 109176 | 220670 | 40    | 90501            | 3.000          | 3.000    | SR       |
| 9855 STOCK  | 109176 | 222327 | 40    | 92101            | 1.000          | 1.000    | SR       |
| 9855 STOCK  | 109176 | 222328 | 40    | 92101            | 1.000          | 1.000    | SR +     |

| PO0153.05 1     |       |        | P    |        | e Order<br>iver Det | 17:40:57 | 11/15/01 |      |
|-----------------|-------|--------|------|--------|---------------------|----------|----------|------|
| Product 1090280 |       |        | GEN  | ALCOH  | OL                  |          |          |      |
| Vendor I        | Disp  | P.O.   | Rec  | No Lin | Date                | Received | Billed   | Whse |
| 9855 9          | STOCK | 109176 | 2240 | 28 40  | 100501              | 2.000    | 2.000    | SR   |
| 9855 \$         | STOCK | 109176 | 2250 | 57 40  | 101501              | 2.000    | 2.000    | SR   |
| 9855 \$         | STOCK | 109176 | 2258 | 59 40  | 102401              | 2.000    | 2.000    | SR   |
| 9855 5          | STOCK | 109176 | 2273 | 34 40  | 110601              | 1.000    | 1.000    | SR   |
| 9855 \$         | STOCK | 109176 | 2273 | 35 40  | 110601              | 1.000    | 1.000    | SR   |
| 9855            | STOCK | 109176 | 2281 | 19 40  | 111301              | 1.000    | .000     | SR   |

F3=Exit

F7=Fold

# EQ Resource Recovery, Inc.





October 22, 2001

Generator Approval Notification

Customer: ENVIRONMENTAL WASTE SRVCS.

Fax: (630) 365-3112

FRED PFEIFFER
THE MOREY GROUP
100 MOREY DR.
WOODRIDGE, IL 60517

This Generator Approval Notification acknowledges the acceptability of waste material(s) into the EQ environmental protection facility identified below and ensures that this facility has the appropriate permit(s) issued by federal and state regulatory agencies to properly transport, treat, and/or disposal of the waste material(s).

EQ FACILITY: EQ Resource Recovery, Inc. (MID060975844)

36345 Van Born Road, Romulus, Michigan 48174

Approval Number: J06300D

Generator EPA ID #: ILG000060910

Approved Container: DRUM Expires On: 10/9/2002

Waste Common Name: Waste Flux

Comments:

Primary Waste Code: D001

The Approval(s) listed above are based upon characterization information supplied to EQRR by the Customer and the generator (if other than the Customer). The Customer is ultimately responsible for the accuracy and completeness of all such information, whether provided by the Customer or the generator. The Customer must notify the EQRR Approvals Department immediately upon knowledge of any changes to this information. This Approval and all wastes which are transported, delivered, or tendered to EQ under this Approval shall be subject to the attached Standard Terms and Conditions.

The Approval(s) will expire on the date(s) noted. Any new Approvals obtained from EQRR on future business will be valid for a period of one (1) year from the date of issuance. Within 30 days of the Approval Expiration Date, you will be notified of the requirements for recertification.

If you have any questions, please call us toll free at 1-800-521-0998

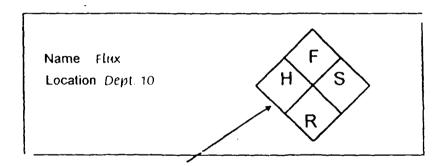
YOUR BUSINESS. OUR SOLUTIONS. A PRODUCTIVE PARTNERSHIP @

MOR 001520

## **Hazardous Chemical Labeling Procedure**

## Hazardous chemicals must be labeled with the following information.

- The place where the chemical is stored (i.e. Paint Room, Post Wave etc.).
- The name of the chemical (Flux, Alcohol, etc.)
- The hazard diamond must be filled in with the hazard ratings in each of the four categories.
  - 1. Flammability rating
  - 2. Health hazards
  - 3. Reactivity rating.
  - 4. Specific hazards



The information needed to fill in the Hazard diamond can be found on the MSDS reference guide, or on the label of the original container, the chemical came in.

Each category is rated on a scale from zero to four, with four being the most hazardous.

for instance:

Liquid Nitrogen has a flammability rating of 4

Isopropyl Alcohol has a flammability rating of 3

Crude oil has a flammability rating of 2 Wood has a flammability rating of 1 Water has a flammability rating of 0

### PROGRAM FOR REMOVAL OF HAZARDOUS WASTE

Six Chemicals May Be Disposed Of In The 55 Gallon Drum Marked "HAZARDOUS WASTE." The Drum Is Located In The Flame Room.

- 1 Waste Solder Flux
- 2 P.C. 101
- 3 P.C. 101 Thinner
- 4 Di-Basic Ester
- 5 Potting Compound
- 6 PAINT

\* NOTE: No other chemicals are to be disposed of in this 55 gallon drum Mixing unknown chemicals may cause a reaction resulting in explosion or fire. Any waste chemicals not on this list should be stored in their original containers and given to the Safety Director For Disposal.

Accumulating and Storing Wastes:

- Proper Transfer Container --- 5 gallon drums acceptable, but must be emptied into larger 55 gallon drums within 30 days of it's filling with used chemical.
- 2). Proper Labeling --- Each container must be labeled with the following:
  - A). Name (used flux, used P.C. 101)
  - B). Where it came from (wave solder)
  - C). Using the diamond shaped area on the Hazmat Label, fill in the 4 hazard categories.
    - 1). Health Hazard; rating 1
    - 2). Fire Hazard; rating 3
    - 3). Reactivity; rating 0
    - 4). Specific Hazard, rating 0
- All containers must be poured directly into the 55 gallon drum at the time they are moved to the Flame Room
- 4). Each full 55 gallon drum of used flux should be disposed of as soon as it becomes full.
- 5). All containers must have lids in place.

The company ENVIRONMENTAL WASTE SERVICES (630) 365-1100 is our source for disposing of waste flux.

Disposal cost: \$110.00 per 55 gallon drum New Drum Cost: \$35.00

## **Hazardous Waste Procedure**

The Morey Corporation has been identified as a potential hazardous waste generator and therefore subject to regulation of such waste under the Resource Conservation and Recovery Act (RCRA). Failure to follow RCRA may result in a civil penalty.

If waste exhibits the following characteristics it is considered to be hazardous:

- 1. Ignitability;
- 2. Corrosivity;
- 3. Reactivity;
- 4. Extraction Procedure Toxicity

Hazardous waste cannot be thrown out with the garbage. It must be disposed of in the following manner.

#### Supervisor's Responsibility:

- A. Hazardous material cannot be mixed exept for the 6 chemicals allowed to be mixed in the hazardous waste drum
- B. Containers for hazardous material must be identified with a label on the container.
- C. Satelite waste containers must be dumped into a 55 gal. drum as soon as they become full. This applies to all chemicals.
- D. All 55 gallon containers must be stored in the Fire Room until they are ready to be disposed of.
- E. Once the 55 gal. drum is filled the Safety Supervisor is to fill out a disposal form and give it to the purchasing department.

#### STOCK ROOM:

A. It is the Safety Manager's responsibility to provide empty 55 gal. drums as required.

#### PURCHASING:

- A. Upon receipt of the hazardous waste disposal form the purchasing department will Call Environmental Waste Services at (630) 365-1100
- B. Environmental Waste Services will fill out the hazardous waste labels (one per container), and provide all necessary paperwork for transportation including Uniform Manifest.
- C. The Safety Manager will receive 2 copies of the Uniform Manifest from the

Environmental Waste Services pick up person. One copy will be filed in the "Hazardous Waste Folder" in the safety file drawer located at the Safety manager's desk. The second copy must be mailed to the State of Michigan Department of Environmental Quality by the front office.

D. The Safety Manager will receive a copy of the Uniform Manifest from the State of Michigan. The copy must be filed in the "Hazardous Waste Folder" in the safety file drawer located at the Safety manager's desk.

## **DOCUMENT PREPARED BY:**

Todd A. Bancroft, Esq. O'Brien, O'Rourke & Hogan 10 South LaSalle Street, Suite 2900 Chicago, Illinois 60603

#### **FUTURE TAX BILLS TO:**

A-1 Holdings, L.L.C. 1928 Kimberly Drive Darien, Illinois 60561

(Space above this Line for County Recorder's Use Only)

# SPECIAL WARRANTY DEED

[Illinois]

THE GRANTOR, MC HOLDINGS CORP., an Illinois corporation, for consideration of TEN DOLLARS (\$10.00), and other valuable consideration, pursuant to authority duly given by the Board of Directors of said corporation, hereby REMISES, RELEASES, ALIENS and CONVEYS to A-1 HOLDINGS, L.L.C., an Illinois limited liability company, all of its right, title and interest in the Real Estate situated in the State of Illinois, County of DuPage, legally described on Exhibit A, attached hereto, subject to those limitations on title described on said Exhibit A.

## SEE EXHIBIT A FOR LEGAL DESCRIPTION

TOGETHER WITH all and singular the hereditaments and appurtenances thereunto belonging, or in any way appertaining, TO HAVE AND TO HOLD the said described property forever. Grantor does covenant, promise and agree that it has not done or suffered to be done anything whereby the said described property hereby granted is, or may be, in any manner encumbered or charged, except as herein recited, and Grantor will warrant and defend same for all persons claiming by through or under Grantor, subject to the matters set forth on Exhibit A.

IN WITNESS WHEREOF, said corporation has caused this Special Warranty Deed to be executed and delivered by its President and attested to by its Secretary as of the date set forth below.

DATE: June 4, 1998

MC HOLDINGS CORP.,

an Illinois corporation

Its: President

ATTEST:

By:

MOR 001525

V Assistant Secretary

| STATE OF ILLINOIS | )     |
|-------------------|-------|
|                   | ) SS. |
| COUNTY OF COOK    | )     |
| SISPACE           |       |

ACKNOWLEDGEMENT

Assistant

I, the undersigned, a Notary Public in and for said County, in the State aforesaid, DO HEREBY CERTIFY that DANA MOREY and SCOTT MOREY, personally known to me to be the President and Secretary of MC HOLDINGS CORP., and personally known to me to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that they signed, sealed and delivered said instrument as their free and voluntary act and as the free and voluntary act of the corporation, for the uses and purposes therein set forth.

Given under my hand and official seal, this \_\_\_\_\_ day of June, 1998.

[SEAL]

MOR 001526

# EXHIBIT A

#### LEGAL DESCRIPTION

THE NORTH 385 FEET OF LOT 34 IN ELLSWORTH PARK UNIT NO. 5, BEING A SUBDIVISION IN THE SOUTHWEST QUARTER (1/4) OF SECTION 12, TOWNSHIP 38 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JANUARY 10, 1962 AS DOCUMENT NO. R62-993, IN DUPAGE COUNTY, ILLINOIS

COMMONLY KNOWN AS:

2661 WISCONSIN AVENUE DOWNERS GROVE, ILLINOIS 60516

P. I. N.:

08-12-303-004

## Less and except the following:

- 1. Real estate taxes and installments of special assessments not yet due and payable;
- 2. Easement for public utilities as disclosed by the Plat of Subdivision recorded as Document R62-993 on January 10, 1962; and
- 3. Building setback line as established, recorded January 10, 1962 as Document R62-993.

#### **DOCUMENT PREPARED BY:**

Todd A. Bancroft, Esq. O'Brien, O'Rourke & Hogan 10 South LaSalle Street, Suite 2900 Chicago, Illinois 60603

#### **FUTURE TAX BILLS TO:**

A-1 Holdings, L.L.C. 1928 Kimberly Drive Darien, Illinois 60561

(Space above this Line for County Recorder's Use Only)

#### SPECIAL WARRANTY DEED

[Illinois]

THE GRANTOR, MOREY REALTY GROUP, INC., an Illinois corporation, for consideration of TEN DOLLARS (\$10.00), and other valuable consideration, pursuant to authority duly given by the Board of Directors of said corporation, hereby REMISES, RELEASES, ALIENS and CONVEYS to A-1 HOLDINGS, L.L.C., an Illinois limited liability company, all of its right, title and interest in the Real Estate situated in the State of Illinois, County of DuPage, legally described on Exhibit A, attached hereto, subject to those limitations on title described on said Exhibit A.

#### SEE EXHIBIT A FOR LEGAL DESCRIPTION

TOGETHER WITH all and singular the hereditaments and appurtenances thereunto belonging, or in any way appertaining, TO HAVE AND TO HOLD the said described property forever. Grantor does covenant, promise and agree that it has not done or suffered to be done anything whereby the said described property hereby granted is, or may be, in any manner encumbered or charged, except as herein recited, and Grantor will warrant and defend same for all persons claiming by through or under Grantor, subject to the matters set forth on Exhibit A.

IN WITNESS WHEREOF, said corporation has caused this Special Warranty Deed to be executed and delivered by its President and attested to by its Secretary as of the date set forth below.

DATE: June 4, 1998

MOREY REALTY GROUP, INC.,

an Illinois corporation

Its: President

ATTEST:

By:

Its: Secretary Assistant Secretary MOR 001528

| STATE OF ILLINOIS | )         |          |
|-------------------|-----------|----------|
|                   | ) SS.     |          |
| COUNTY OF COOK    | )         |          |
| DoPAGE            |           |          |
|                   | ACKNOWI   | EDGEMENT |
|                   | - 115515h | ~ ~      |

I, the undersigned, a Notary Public in and for said County, in the State aforesaid, DO HEREBY CERTIFY that DANA MOREY and SCOTT MOREY, personally known to me to be the President and Secretary of MOREY REALTY GROUP, INC., and personally known to me to be the same persons whose names are subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that they signed, sealed and delivered said instrument as their free and voluntary act and as the free and voluntary act of the corporation, for the uses and purposes therein set forth.

Given under my hand and official seal, this \_\_\_\_\_ day of June, 1998.

[SEAL]

MOR 001529

#### EXHIBIT A

#### LEGAL DESCRIPTION

LOT 34 (EXCEPT THE NORTH 385 FEET) IN ELLSWORTH PARK UNIT NO. 5, BEING A SUBDIVISION IN THE SOUTHWEST QUARTER (1/4) OF SECTION 12, TOWNSHIP 38 NORTH, RANGE 10, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JANUARY 10, 1962 AS DOCUMENT NO. R62-993, IN DUPAGE COUNTY, ILLINOIS

COMMONLY KNOWN AS:

2661 WISCONSIN AVENUE

DOWNERS GROVE, ILLINOIS 60516

P. I. N.:

08-12-303-006

#### Less and except the following:

- 1. Real estate taxes and installments of special assessments not yet due and payable;
- 2. Easement for public utilities as disclosed by the Plat of Subdivision recorded as Document R62-993 on January 10, 1962; and
- 4. Building setback line as established, recorded January 10, 1962 as Document R62-993.

#### 

between Downers Grove National Bank and Trust, as Trustee under Trust No. 78-309

herein called the "Landlord," and MONTGOMERY WARD & CO., INCORPORATED, an Illinois corporation, with General Offices at 619 West Chicago Avenue, Chicago, Illinois, herein called the "Tenant,"

Regional 140 South State Street.

#### WITNESSETH:

\* the date Tenant takes possessic of the demised Premises provide Landlord has completed the work described in Paragraph #19 here

, and continuing to and including \*\*
, the premises located in the City of Downers Grove

, County of Dupage

1. The Landlord leases to the Tenant for a term commencing on \*

, and State of Illinois

described as follows:

\*\* Ten (10) years after the first day of the first month following the month in which Tenant take possession.

See Exhibit 'E', which is attached hereto and made a part hereof.

including all improvements now or hereafter thereon and all appurtenances thereto. Said premises are commonly known as 2663 Wisconsin Avenue.

- 2. The Tenant shall pay rent to the Landlord at the annual rate of Twenty Five Thousand Seven Hundred and No/100

  Dollars (\$ 25,700.00 ) payable in equal monthly installments on or before the tenth (10th) day of each calendar month for the current calendar month. Rent for part of a month shall be prorated. Anything contained herein to the contrary notwithstanding, the Tenant's obligation to pay rent hercunder shall not commence until actual and exclusive possession of the leased premises has been delivered to the Tenant and all repairs, alterations and improvements necessary to fit the premises for occupancy at i use by the Tenant shall have been completed, all as contemplated by Paragraphs 19 & 20 hereinbelow.
  - 3. All payments to the Landlord may be made by checks or drafts payable to the order of

The Morey Corporation and mailed to such payee at 2659 Wisconsin Avenue Downers Grove, Illinois 60515

5. If the Tenant has exercised the foregoing option to extend the term, it may, by written notice mailed or telegraphed to the Landlord One Hundred Eighty (180) or more days before the end of the term as extended, further extend the term to and including for an additional Five years

upon the same terms and conditions as herein set forth, except that rent during the further extended term shall be adjusted upward extended term by the percentage change in the CPI since the commencement of the extended term, but in no event shall rent be increased by more than 75%.

graphed to the Landlord ( ) or more days before the effective date of the cancellation, may cancel this lease as of

All rent and other charges paid in advance for any period after the effective date of such cancellation

- 7. The Landlord will not interrupt or disturb any entrances, exits, or approaches, or deprive the premises of any light or air now enjoyed by the premises.
- 8. The Landlord covenants and agrees to maintain the Tenant's quiet possession and enjoyment of the entire leased premises during the term hereofanakanness movements agrees that the sense keeps and the provinces has remained to the term hereofanakanness movements and the provinces has remained to the provinces and the provinces has remained to the provinces and the provinces has a provinces and the provinces has a provinces and the provinces and the provinces has a provinces and the provinces and the provinces has a provinces and the provinces and the provinces and the provinces and the provinces and the provinces and the provinces and the provinces and the provinces and the provinces and the provinces and the provinces and the provinces are provinced by the provinces and the provinces are provinced by the provinces and the provinces and the provinces are provinced by the provinces and the provinces are provinced by the provinces and the provinces are provinced by the provinces and the provinces are provinced by the provinces and the provinces are provinced by the provinces and the provinces are provinced by the provinces and the provinces are provinced by the provinces and the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces are provinced by the provinces ar
- 9. The Tenant, at its own expense, may from time to time install on the premises any equipment fixtures and improvements and remove them and may make any alterations or additions in a good and workmanlike manner in and to the premises and may erect or remove any signs on the premises which it may deem necessary or suitable for the conduct of its business. (except advertising signs)

- 12. The Tenant may sublet the premises or assign this lease; provided, however, that the Tenant shall not be relieved from its obligations under the lease by such subletting or assignment without the Landlord's consent.
- 13. The Tenant may holdover at the end of the term, without extending the term or renewing the lease, provided the Landlord, at least thirty (30) days prior to the expiration of the term, has not given written notice to the Tenant to vacate the premises at the expiration of the term. If the Tenant does so holdover, the tenancy thereafter shall continue upon the terms and conditions of this lease in effect during the last month of the term until terminated by either party by notice mailed to the other party at least thirty (30) days before the effective date of such termination.
- 14. The Tenant, on the last day of the term, or on the last day of any holdover, will surrender the premises in as good condition as when the Tenant takes possession, except for ordinary wear and tear, repairs and replacements required to be made by the Landlord, loss by fire or casualty, loss by any cause beyond the Tenant's control, and alterations, additions, and improvements herein permitted.

- 15. Tenant shall pay for all gas and electricity used by it on the demised premises.
- 16. (a) The Landlord shall pay when due all taxes and assessments of every kind and nature which have been or which shall during the term of this lease be levied, assessed or otherwise imposed upon the leased premises, including all improvements now or hereafter thereon, but nothing contained in this Section 16 shall be deemed to obligate the Landlord to pay any taxes levied or assessed against the personal property of the Tenant located in the leased premises or any taxes commonly known as "chain store taxes" imposed on the Tenant by reason of the fact that the Tenant operatesmore than one place of business in the jurisdiction imposing such tax, which personal property taxes and chain store shall be paid the Tenant.
- (b) The Tenant, upon receipt of satisfactory evidence of the amount of such excess, shall reimburse the Landlord the amount by which the general real estate taxes levied and assessed against the leased premises for each subsequent tax fiscal year during the term of this lease exceed the general real estate taxes levied and assessed against the leased premises for the third tax fiscal year following Tenant's occupancy; provided, however, that the Tenant shall be obligated to pay only its pro rata share of such excess taxes for the tax fiscal year during which its obligation to pay rent under this lease ceases, said pro rata share to be based upon the number of days of the then current tax fiscal year for which the Tenant has been obligated to pay tent under this lease.
- (c) Prior to the payment thereof, the Landlord shall submit to the Tenant copies of all general real estate tax bills, a portion of which the Tenant may be obligated to pay to the Landlord under this Section 18, together with a statement showing the computation of the amount owed by the Tenant to the Landlord hereunder, supported by such evidence as the Tenant may reasonably require, where-upon the Tenant (unless it shall contest such taxes as hereinafter provided) shall pay to the Landlord within thirty (30) days after receipt of such bills, statement and other evidence, that portion of such general real estate taxes required to be paid by the Tenant hereunder.
- (d) In the event the Tenant shall desire to contest the validity or amount of any tax, a portion of which it may be required to pay to the Landlord hereunder, the Tenant, within thirty (30) days after being notified of the amount thereof, shall notify the Landlord of its intention to do so, whereupon the Landlord shall defer payment of any such tax so long as the validity or amount thereof shall be contested by the Tenant in good faith and by proper proceedings, except that the Landlord may make such payments under protest or take such other steps with regard to said tax as will not prejudice the Tenant's opportunity to successfully contest the validity or amount thereof. The Landlord agrees to render to the Tenant all assistance reasonably possible, without expense to the Landlord, in contesting the validity or amount of any such tax, including joining in and signing any protest or pleading which the Tenant may deem it advisable to file. Should any rebate be made on account of any tax a portion of which has been paid by the Tenant to the Landlord hereunder shall belong to and be paid to the Tenant.
- 17. Tenant shall maintain the parking lot areas, fence, and paved areas in good condition and repair, and shall also, as necessary, maintain, repair, and replace the gas pump and lighting facilities on the demised premises.
- 18. Tenant shall carry General Liability insurance, or at its option be self-insured, with limits of not less than Two Hundred and Fifty Thousand Dollars (\$250,000.00).

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- 19. Within Thirty (30) days after WHXEXEXECUTERXOCKERISK LARGE, Landlord shall commence, and thereafter diligently prosecute to completion, the following Landlord's work, as also more fully described an Exhibit "B", which is attached hereto and made a part hereof:
  - (a) Grade, compact, and gravel the parking areas so as to be suitable for Tenant's intended use.
  - (b) Install a six (6) foot chainlink fence (with barbed wire and sliding gate) around the perimeter of the demised area.
  - (c) Excavate for, position, and install a certain Eight Thousand (8000) gallon gasoline tank, and pump, located as shown on Exhibit "B", tank and pump to be supplied by Tenant promptly after last execution of this Lease.
  - (d) Provide electric service to the gas pump.
  - (e) Install and erect a lighting pylon, and attach lighting fixtures thereto, as shown on Exhibit "B".
  - (f) Lay concrete paving in and about the area of the gasoline pump as required.
  - (g) Pave a hard surface, all weather, access drive from the pump area to the adjoining parcel also leased by Tenant.

All work required to be performed by the Landlord hereunder shall be performed in a good and workmanlike manner. The Premises shall be left at the completion of such work in a safe, clean and tenantable condition and in good order and repair. Landlord shall perform all work provided for hereunder in conformity with all applicable construction and building codes and with every applicable requirement of law or duly constituted authority of law, or any Board of Underwriters, Rating Bureau or similar organization having jurisdiction, of carriers of insurance on the leased Premises. See paragraph 19, continued on Page 4a.

- 20. Tenant shall take possession of the Leased premises within a reasonable time, not to exceed Thirty (30) days, after Landlord notifies Tenant that all Landlord's work pursuant to Paragraph #19 has been completed and that Tenant may have exclusive possession of the Premises. In the event the Landlord has not completed all work on or before June 1, 1980 . Tenant may cancel this Lease by sending written notice to Landlord, whereupon this Lease shall be terminated and of no further force and event.

If the report on title, title binder, or leasehold title insurance policy, so required, discloses any defects in title (other than such usual objections contained in leasehold policies and matters to which this lease is subject) Landlord shall, upon tendering the same to Tenant within thirty (30) days from the date of last execution of this lease, have sixty (60) days, from the date which such title report, binder, or leasehold title insurance policy bears, to cure such defects and to furnish such title report, binder, or leasehold policy showing such defects cured or removed. If such defects in title are not so cured within sixty (60) days. Tenant may, at its option, terminate this lease. In the event this lease is so to

#### Paragraph 19 (continued)

Within Thirty (30) days after the last execution of this Lease, Landlord shall prepare appropriate plans, specifications and/or working drawingscovering the foregoing work, and submit same to Tenant for approval.

In the event Landlord does not complete the work diligently. Tenant may, at its option, cause the work to be completed and deduct the cost thereof from rent.

- 21.2 Tenant may, at its option, record this Lease and the cost of all documentary stamps, or conveyancing, transfer tax and recording fees shall be
- 21. Broker's Commissions If there are any Broker's fees or commissions payable in connection with the bringing about of the execution and delivery of this lease, the Landlord agrees that Landlord will pay same, that the Tenant shall not be liable for such fees and commissions and that the Landlord will indemnify and save the Tenant harmless from any and all claims for such fees and commissions.
- 22. Landlord and Tenant acknowledge that Tenant is negotiating a Lease of substiantially like terms and conditions for Premises adjoining the Landlord's Premises, and that Tenant's use of the demised premises is not feasible without the use of said adjoining Premises. Notwithstanding anything in this Lease to the contrary, Tenant's rental obligation hereunder shall not commence until Tenant has taken possession of the adjoining Premises. When the commencement date of both leases has become fixed, Landlord and Tenant agree to execute a Lease Supplement fixing the commencement date and the termination date of the Lease.

If, due to fire, the elements, or the exercise of the right of eminent domain or other authority of law, or any other cause, the premises shall become untenantable, dangerous or unfit for the Tenant's use, rent pavable under this lease shall abate during the continuance of that condition. If the conditions which give rise to an abatement of rent under this section continue for a period of ninety (90) days, then the Tenant may, at any time within sixty (60) days after such ninety (90) day period, cancel this lease and terminate its tenancy by giving the Landlord written notice of its intention to do so.

All notices, approvals, or requests in connection with this lease shall be sent by registered mail or telegram. Notices to the Landlord may be addressed to the Landlord at the address set forth in Section 3 above. Notices to the Tenant shall be addressed to Montgomery Ward & Co., Incorporated, at 140 South State Street, Chicago, Illinois, attention: Regional law Department.

Employees or agents of the Tenant have no authority to make or agree to make a lease. This instrument shall not be binding upon the Tenant until it has been executed on behalf of the Tenant by one of its corporate officers. No act or omission of any employee of the Tenant shall alter, change, or modify any of the provisions of this lease. Any alterations, changes, and modifications of this lease shall be effective only when made in writing and executed on behalf of the Tenant by one of its corporate officers.

All the grantors of the term shall be bound jointly and severally by this lease. This lease shall inure to the benefit of and be binding upon, the respective heirs, legal representatives, successors and assigns of the Landlord and the Tenant.

IN WITNESS WHEREOF, this lease has been duly executed under seal as of the first hereinabove written.

LANDLORD:

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BRODEN BASE STREET, STREET, CALL STREET, CALL

TENANT:

DOWNERS GROVE NATIONAL BANK & TRUST, as Trustee under Trust No. 78-309

MONTGOMERY WARD & CO., INCORPORATED

William J. Harbeck,

Bv: President

Attest:

Jou Norman A. Smith, Assistant Secretary

WITNESSES:

- 5 -

STATE OF ILLINOIS COUNTY OF COOK SS:

| and G. Fletcher War<br>an Illinois corpora<br>whose names are sub<br>Senior Vice Preside<br>appeared before me<br>and delivered the s<br>Senior Vice Preside                                                          | i, DO HEREBY CERTIFY the d, Assistant Secretary tion, who are personal secribed to the foregoint, and G. Fletcher Wathis day in person and this day in person and that and Assistant Secret description for the                                  | at J.B. Gell<br>, of MONTGON<br>ly known to<br>ng instrument, Assistan<br>acknowledge<br>r free and v | MERY WARD, & CO.  me to be the sa  it as such J.B.  it Secretary, re  id that they sig  roluntary act an  tively, and as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ce President, INCORPORATED  me persons Gelling, spectively, med, sealed d as such the free and |
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#### (ACKNOWLEDGEMENT)

STATE OF ILLINOIS COUNTY OF COOK Hattie L. Foster , a Notary Public in and for the county and state aforesaid, DO HEREBY CERTIFY THAT W.J. Harbeck Vice President, and Norman A. Smith , Assistant Secretary, of MONTGOMERY WARD, & CO., INCORPORATED an Illinois corporation, who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such  $\frac{N.J.\ Harbeck}{}$ , Vice President, and Norman A. Smith , Assistant Secretary, respectively, appeared before me this day in person and acknowledged that they signed, sealed and delivered the said instrument as their free and voluntary act and as Vice President and Assistant Secretary, respectively, and as the free and voluntary act of said corporation for the uses and purposed therein set forth. Given under my hand and notarial seal, this  $3/\frac{1}{2}$  day of Jarch , 1980: My commission expire 4-10-83. (ACKNOWLEDGEMENT-INDIVIDUAL) STATE OF COUNTY OF SS: , a Notary Public in and for the county and state aforesaid, DO HEREBY CERTIFY that who (is) (are) personally known to me to be the same person(s) whose name(s) (is) (are) subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that ( he) (they) signed, sealed and delivered the said instrument as ( he) (their) free and voluntary act for the uses and purposes therein set forth. Given under my hand and notarial seal, this day of Notary Public (ACKNOWLEDGEMENT-CORPORATE) STATE OF COUNTY OF SS: for the county and state aforesaid, DO HEREBY CERTIFY that President, and , Secretary of corporation, who are personally known to me to be the persons whose names are subscribed to the foregoing instrument as and Secretary, respectively, appeared before me this day in person and acknowledged that they signed, scaled and delivered the said instrument as their free and voluntary act President and Secretary, respectively, and as such

and as the free and voluntary act of said corporation for

Given under my hand and notarial seal, this day of

the uses and purposes therein set forth.

\_\_\_\_, 19\_\_\_.

Notary Public

#### ASSUMPTION AGREEMENT

The undersigned, THE MOREY CORPORATION, a corporation of Illinois

being all (or a majority of) the beneficiaries of Downers Grove National Bank and Trust, as Trustee under Trust #78-309, dated \_\_\_\_\_, and the holders of appropriate power of direction thereunder, hereby expressly agree, in consideration of the execution of the lease to which this Assumption Agreement is attached, i.e., that certain Lease dated February 5, 1980 by and between the aforesaid mentioned Downers Grove National Bank and Trust, as Trustee, as Lessor, and Montgomery Ward & Co., Incorporated, as Lessee, that they will individually and personally, jointly and severally, perform each and every of the Lessor's undertakings and obligations assumed and expressed in the Lease to which this Assumption Agreement is attached.

This undertaking and obligation of the undersigned, shall be binding upon their successors, assignees, administrators and assigns, and they covenant and agree not to assign the said lease or any rights thereunder unless such assignee expressly assumes to perform all of the covenant and undertakings of said Lease.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 2nd day of April , 1980.

THE MOREY CORPORATION, a

corporation of Illinois

BY: Killed K. Moren

ATTEST: Edward Stollowel

Secretaty

3638<sub>7</sub>a3 MOR 001539

#### EXHIBIT A

Lot 34 (except the North 385 feet thereof) in ELLSWORTH PARK Unit Number 5, being a Subdivision in the Southwest Quarter of Section 12, Township 38, Range 10, East of the Third Principal Meridian, according to the Plat thereof recorded January 10, 1962 as Document R62-993 in DuPage County, Illinois.

P. 1

#### FIRST SUPPLEMENTAL AGREEMENT

THIS FIRST SUPPLEMENTAL AGREEMENT made this 29th day of December, 1989, by and between DOWNERS GROVE NATIONAL DANK RAW National Banking Association, as Trusted Under Trust No. 18-209, December called Landlord, and MONTGOMERY WARD & CO., INCORPORATED, an Illinois corporation, with corporate offices at One Montgomery Ward Plaza, Chicago, Illinois 60671, hereinafter called Tenant.

#### WITNESSETH:

WHEREAS, the parties hereto entered into a certain Lease Agreement dated February 5, 1980, hereafter called the Lease, covering certain premises located in the City of Downers Grove, County of DuPage, State of Illinois, commonly known as 2663 Wisconsin Avenue, now occupied by Tenant and more fully described in said Lease, and

WHEREAS, the parties are mutually desirous of supplementing said Lease;

NOW THEREFORE, for and in consideration of the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- (1) The term of said Lease is hereby extended from and including the first (1st) day of October, 1990 to and including the thirtieth (30th) day of September, 1995.
- (2) Tenant shall continue to pay rent to Landlord for the leased premises during the extended term herein provided at the annual rate of TWENTY FIVE THOUSAND SEVEN HUNDRED AND NO/100 DOLLARS (\$25,700.00), payable in equal monthly installments on or before the tenth (10th) day of each calendar month for the current calendar month. Rent for part of a month shall be prosated.
- (3) Payments to the Landlord may be made by checks or drafts payable to the order of The Morey Corporation, and mailed to such payee at 2659 Wisconsin Avenue, Downers Grove, Illinois 60515.
- (4) Effective as of the complete execution and delivery of this First Supplemental Agreement, Section 4 of said Lease shall be and is hereby cancelled and deleted therefrom, it being understood and agreed, however, that the Tenant shall continue to have the option granted to it in Section 5 of said Lease to further extend the term for an additional period of five (5) years from the end of the extended term herein provided, in accordance with said Section 5.
- (5) In consideration of One Dollar (\$1.00) paid by the Tenant to the Landlord, the receipt and sufficiency of which is hereby acknowledged, Landlord hereby agrees that the Tenant shall have the option to execute this first Supplemental Agreement at any time within thirty (30) days after receipt of the same duly executed by Landlord.

02/07/96

EXCEPT as above supplemented, the Lease, together with any previous Supplemental Agreements and/or Lease Amendments, is hereby ratified and confirmed. All of the covenants of said Lease, as amended, shall be interdependent and binding upon and shall inure to the benefit of the parties hereto, their respective successors and assigns.

Date: 2/2/9/ PCS ?

PAX
TO: Orue Cumunda.

From: Sarbara Mossage: Rec your flower

Mossage: Rec your flower

Montgomery Word

PECSIVED JAN 15 WAL THE MORRY CORP.

P.2

IN WITNESS WHEREOF, the parties hereto have caused this First Supplemental Agreement to be executed the first day and year above written.

LANDLORD:

DOWNERS GROVE NATIONAL MANK

as Trustee under Trust No. 78-209

TENANT:

MONTGOMERY WARD & CO., INCORPORATED

ATTEST:

WITNESS:

STATE OF ILLINOIS )
COUNTY OF DU PAGE )SS:

for the county and state aforesaid, DO HEREBY CERTIFY that

\*\*RAMMY President, and \*\*Direction\*\* Secretary of BOWNERS CROWN MATINAL DANK, a Mational Banking location, who are

personally known to me to be the persons whose names are
subscribed to the foregoing instrument as such

President, and \*\*Secretary, respectively, appeared before me this day in person and acknowledged that they signed, sealed and delivered the said instrument as their free and voluntary act and as such \*\*President and \*\*Secretary, respectively, and as the free and voluntary act of said corporation for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 5 day of \_\_\_\_\_\_, 1990.

OPFICIAL SEA!

Cougles E. Cunningham

Notary Public, State of Binals

My Commission Expires 11/08/63

My Commission Expires: ///8/53

STATE OF ILLINOIS )
COUNTY OF COOK )SS:

I, Frances M. Catledoc, a Notary Public in and for the county and state aforesaid, DO HEREBY CERTIFY that Topoles H. Heine, Senior Vice President, and G. T. Morgan, Assistant Secretary, of MONTGOMERY WARD & CO., INCORPORATED, an Illinois corporation, who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such Senior Vice President and Assistant Secretary, respectively, appeared before me this day in person and acknowledged that they signed, sealed and delivered the said instrument as their free and voluntary act and as such Senior Vice President and Assistant Secretary, respectively, and as the free and voluntary act of said corporation for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 11th day of April 1970.

Motory Public

"OFFICIAL SEAL"
FRANCES M. CATLEDGE
Notary Public. State of Illinois
My Commission Expires 10/25/91

My Commission Expires: 10/25/1991

January 19, 1996

Mr. Chuck Jensen Regional Property Manager Montgomery Ward Corporate Real Estate 535 West Chicago Avenue Chicago, Illinois 60671

RE: Parking lot lease, Montgomery Ward Service Facility 2701, Behind Walnut Avenue, Downers Grove, Illinois.

Dear Mr. Jensen:

As you are aware, Montgomery Ward has chosen to exercise the final five year option on the parking lot described above.

The lease terms provide for a 75% increase in rent effective on the October 1, 1995 renewal date.

We therefore request that you update your records and payment system to reflect a monthly rent of \$3,747.91 as of October 1, 1995.

Please feel free to call the undersigned at (708) 964-2300 with any questions.

Very truly yours,

THE MOREY CORPORATION

Douglas E. Cunningham Controller

DEC/s

Montgomery Ward Corporate Offices Montgomery Ward Plaza Chicago, Ibmos 80871

Corporate Offices

312-467 2000

Chicago, Illinois January 30, 1996

The Morey Corporation Mr. Douglas E. Cunningham 2659 Wisconsin Avenue Downers Grove, IL 60515-0719

RE: MONTGOMERY WARD - DOWNERS GROVE, IL PARKING LOT LEASE RENT INCREASE

Dear Mr. Cunningham:

Your letter of January 19, 1996 was referred to me for handling. According to the terms of our Lease dated February 5, 1980 and the First Supplemental Agreement dated December 29, 1989, our rent shall be increased per section 5 during the option period 10/1/95 thru 9/30/2000. Our fixed rent during this further extended term shall be adjusted upward at the commencement of the extended term by the percentage change in the CPI since the commencement of the extended term, but in no event shall rent be increased by more than 75%.

Below you will find our calculation for this increase using the following indexes:

CPI-U (82 Series)  $\frac{10/95}{10/90}$   $\frac{153.7}{133.5}$  - 15.13% Increase

Georgiansesso

Current monthly rent  $$2,141.67 \times 15.138 = $2,465.70 \text{ mo.}$ 

I have adjusted our rent retroactively to 10/1/95 to the new monthly amount of \$2,465.70. Our check in the amount of \$1,620.15 representing the rent adjustment for period 10/1/95 thru 2/29/96 shall be forthcoming in about ten days. Please note your records.

Should you have any questions, feel free to contact me at #312/467-7798.

Sincerely,

Barbara Gianfrancesco, Supr.

Corporate Lease Accounting, 7-3

cc: Chuck Jensen

**/ab** 

MOR 001546

# ASSIGNMENT OF LEASE

THIS ASSIGNMENT OF LEASE is executed this <u>18th</u>day of June, 1996, by THE MOREY CORPORATION (herein called the "Assignor") formerly the beneficiary of Downers Grove National Bank, as trustee under trust number 78-309 (herein called the "Trust"), and MOREY REALTY GROUP, INC., an Illinois corporation (herein called the "Assignee").

WHEREAS, pursuant to written lease (the "Lease") dated February 5, 1980, between Trust and Montgomery Ward & Co., Incorporated ("Tenant"), and amended by that First Supplemental Lease dated December 29, 1989, between Assignor (as successor to Trust) and Tenant, Tenant did lease the real property described therein; and

WHEREAS, in order to protect the real estate assets of Assignor from the possible liabilities attendant to the operation of Assignor's primary business, the Assignor did create a wholly owned subsidiary (Assignment) for purposes of owning and operating its real estate interests; and

WHEREAS, Assignor has transferred legal title to the Property which is the subject of the lease to Assignee;

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) in hand paid to Assignor, the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge, the parties hereby agree as follows:

- 1. Assignment of Lease. Assignor hereby transfers and assigns to Assignee any and all right, title and interest (specifically including, but not limited to, entitlement to receipt of rental income from the tenant thereunder from and after the date hereof) which Assignor may have, as landlord or otherwise, in the Lease.
- 2. Acceptance. By executing this Assignment, Assignee hereby accepts and agrees to perform all of the terms, covenants and conditions of the Lease on the part of the landlord therein required to be performed, from and after the date hereof.
- 3. Cross Indemnities. Assignee covenants and agrees to indemnify, save and hold harmless Assignor from and against any and all losses, liabilities, costs, expenses, damages, claims or causes of action existing in favor of, or asserted by, the tenant under the Lease which arise out of or relate to Assignee's failure to perform any of the obligations as landlord under the Lease arising after the date hereof. Assignor covenants and agrees to indemnify, save and hold harmless Assignee from and against any and all losses, liabilities, costs, expenses, damages, claims or causes of action existing in favor of, or asserted by, the tenant under the Lease which arise out of or relate to Assignor's failure to perform any of the obligations as landlord under the Lease arising prior to the date hereof.
- 4. Successors and Assigns. This Assignment of Lease shall inure to the benefit of, and be binding upon, the successors, executors, administrators, legal representatives and assigns of the parties hereto.

5. Governing Law. This Assignment of Lease shall be construed under and enforced in accordance with the laws of the State of Illinois.

IN WITNESS WHEREOF, the parties have executed this Assignment of Lease as of the date set forth above.

| ASSIGNOR:                                      | ASSIGNEE:                                         |
|------------------------------------------------|---------------------------------------------------|
| THE MOREY CORPORATION, an Illinois corporation | MOREY REALTY GROUP, INC., an Illinois corporation |
| By: Dana Morey                                 | By: Dan Morey                                     |
| Its: Vice President                            | Its: President                                    |

# ACKNOWLEDGMENT AND CONSENT BY TENANT

The undersigned on behalf of Montgomery Ward & Co., Incorporated does hereby acknowledge receipt of a copy of the foregoing Assignment of Lease in which the Lease described therein is assigned from The Morey Corporation to Morey Realty Group, Inc., consents to same. Tenant agrees that all future rent payments thereunder shall be payable to: Morey Realty Group, Inc., 2659 Wisconsin Avenue, Downers Grove, IL 60516.

MONTGOMERY WARD & CO., INCORPORATED

| By: Name: Title: | ( see ashed |
|------------------|-------------|
| Date:            | . 1996      |

C\W/C\MOREY\ASSIGN.LSE\06-14-96

MOR 001548

Corporate Real Estate

312-467-2000

# VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED

July 23, 1996

The Morey Corporation 2659 Wisconsin Avenue Downers Grove, IL 60516

RE: That certain lease ("Lease") dated February 5, 1980 by and between Downers Grove National Bank, as trustee under trust number 78-309, as Landlord, and Montgomery Ward & Co., Incorporated, as Tenant, for the real property described therein.

Dear Sir or Madam:

The undersigned does hereby acknowledge receipt of a copy of the Assignment of Lease dated June 18, 1996 by and between The Morey Corporation, as Assignee, and Morey Realty Group, Inc., as Assignor, in which the above-referenced Lease was assigned to Morey Realty Group, Inc. The undersigned further acknowledges that, pursuant to the Assignment, all future rent payments due under the Lease should be made payable to Morey Realty Group, Inc. and sent to 2659 Wisconsin Avenue, Downers Grove, IL 60516.

**MONTGOMERY WARD & CO., INCORPORATED** 

Name:

Chuck

Title: Regional Property Manager

CC:

G. Reinhold

MOR 001549

---- IAland

# SELLER'S CLOSING STATEMENT

**SELLER:** 

MC Holdings Corp., an Illinois corporation

Morey Realty Group, Inc., and Illinois corporation

**BUYER:** 

A-1 Holdings, L.L.C., an Illinois limited liability

company

PROPERTY:

2661 Wisconsin, Downers Grove, IL 60516

**CLOSING DATE:** 

June 4, 1998

|                                                | DEBIT        | CREDIT       |
|------------------------------------------------|--------------|--------------|
|                                                | SELLER       | SELLER       |
| Balance of Purchase Price (Parcel 1 & 2):      |              | \$678,217.68 |
| (\$4.50 x 150,715.04 sq. ft.)                  |              |              |
| Earnest Money:                                 | \$100,000.00 |              |
| Title Insurance Charges:                       |              |              |
| Premium                                        | 1,075.00     |              |
| Closing Fee:                                   | 370.00       |              |
| New York Style Closing Fee:                    | 250.00       |              |
| Real Estate Taxes (See calculation, attached): | 11,383.62    |              |
| Transfer Taxes:                                |              |              |
| State of Illinois:                             | 679.00       |              |
| DuPage County:                                 | 339.50       |              |
| Downers Grove (None):                          | 00.00        |              |
| Recording Fees (Estimated):                    | 30.00        |              |
| Commission Payable:                            |              |              |
| Frain Camins & Swartchild                      | 16,955.44    |              |
| Grubb & Ellis                                  | 16,955.44    |              |
| Lease Payment Proration (\$2,465.70 x 26/30)   | 2,136.94     |              |
| Other:                                         | 00.00        |              |
| Balance of Proceeds to Seller:                 | 528,042.74   | <del></del>  |
| TOTALS:                                        | \$678,217.68 | \$678,217.68 |

[Approvals contained on the following page]

**APPROVED:** 

REAL ESTATE TAX CREDIT **COMPUTATION** 

[PRORATIONS FINAL]

Tax Number: 08-12-303-004

08-12-303-006

1997 Tax

\$ 8,232.94 3,938.50

Total:

\$ 12,171.44

@ 102.5%

\$ 12,475.73

Per Diem Amount: \$12,475.73/365 =

34.18

1997 2<sup>nd</sup> Installment

1998, 1/1 through 6/4 (155 Days):

6,085.72

5,297.90

TOTAL TAX CREDIT TO BUYER:

\$ 11,383.62





# Dan Phillips

**Technical Service** 

8400 PORT JACKSON AVE. NW NORTH CANTON, OH 44720 330/494-1313 EXT.250 FAX: 330/966-3006

To:

Bogdan

Date:

05/10/02

Company:

Morey Corp.

Fax.

630-754-2543

#of Pages

Note:

Po's of machines

Bogdan,

These are the original purchase orders from Morey Corp to purchase the serial numbers SN-1136, SN-1782, SN-2039, and SN-2405 we had talked about. If you have any questions or need more information please let me know.

Best regards,

Dan Phillips
Technical Service Rep.

May-10-02 09:03 LCC Parts SVC Fax 330 966 3006

DOWNERS GROVE, IL 60515-0719 FAX NO 708-960-7484 P.02

4×2405 ACCT. NO.

6000-1990

DATE

12/13/90

Morey Torporation

2659 WISCONSIN AVE.

TELEPHONE 708-964-2300

MANUFACTURERS

**PURCHASE ORDER** 

08809

State at illinois tien. No. 2084-1994

HH MACOU

\*\* CONFIRMING ORDER \*\*

GUYT, CONTRACT NUMBER

LIQUID CONTROL CORP

7576 FREEDOM AVE N.W

N. CANTON

OH 44720-0000

PRIORITY RATING

CERTIFIED UNIDER DMS REG # 1

UPS SHIP VIA

216/494-1313

FAR

**JEFF** 

12/06/90

PACKING LIST SHOW OUR

FROM Please furnish the following articles subject to conditions stated herein and printed on the

TÜ ON WITHIN 4 DAYS PLEASE

ACKNOWLEDGE RECEIPT Of This Order and Adviso Date of Shipment.

10x ITEM NO. NO

QUANTITY

DESCRIPTION

PRICE UNIT

Ε

EXTENSION

9000 029 1 EA MINI METER

**≑TFH 15/20** 2405

5025

9990.00

9,990.00

TWINFLOW BENCHTOP MACHINE FOR CATERPILLAR CONTRACTS

back library, all of which conditions become part of this order by your acceptance thereof.

9000 034 100 EA POSIMIXER 1/4 X 24

1.86 Ε 186.00

ELEMENT LIQUID CONTROL TO BE USED WITH TFM 15/20 MACHINE

10,176.00

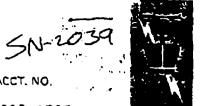
**DOLLAR VALUE THIS ORDER** 

|      | REQUI | RED DELIVERY O | N OUR DOCK AS FOLLOWS | VENDOR PROMISED DELIVERY ON OUR DOCK |      |         |       |  |  |  |
|------|-------|----------------|-----------------------|--------------------------------------|------|---------|-------|--|--|--|
| 10X  | ITEM  | DATE           | QUAN.                 | 10X                                  | ITEM | DATE    | QUAN. |  |  |  |
| 9000 | 029   | 1/14/91        | ALL                   | 9000                                 | 029  | 1/14/91 | ALL   |  |  |  |
| 9000 | 034   | 1/14/91        | ALL                   | 9000                                 | 034  | 1/14/91 | ALL.  |  |  |  |
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|      | }     |                |                       | il                                   |      | 1       |       |  |  |  |

PLEASE NOTE THAT THE QUANTITIES SHOWN ARE THE QUANTITIES REQUIRED. ANY OVERAGES ARE SUBJECT TO RETURN.

The Purchase Order Number must appear on your package, Packing Ship, Bill of Lading and Involce

The Morey Torporation



2659 WISCONSIN AVE. TELEPHONE 312-964-2300

DOWNERS GROVE, JL COSTS 2719 FAX NO. 312-960-7484 - 1 10 K

**~???-1989** 

The Morey Torporation

**MANUFACTURERS** 

**PURCHASE ORDER** NO. 94117

Green of # Some 4 Cert No 2084-1094

Per Per Company GOVT CONTRACT NUMBER

7/27/89

DATE

LIQUID CONTROL CORP

PRIORITY HATING

CEPTIFIED UNDER DMS REG. +1

TO

SHIP VIA: UPS 5025

7574 FREEDON AVE N.W N. CANTON

DH 44720-0000

\*\* CONFIRMING DRIVER \*\*

JEFF

JUR INVOICE & ACKING LIST IST SHOW OUR 216/494-1313 317 758-5842

WITHIN 4 DAYS PLEASE

Please furnish the following articles subject to conditions stated histen and printed on the back nereof, all of which conditions become part of this order by your secantismos thereof.

ACKNOWLEDGE RECEIPT Of This Order and Advise Date of Shipment.

UNIT

10X ITEM NO.

QUANTITY NO.

DESCRIPTION

PRICE

EXTENSION

7/21/89

133 2 EA SPARE PARTS 3180

**♣6PK-35-MM** 

...90.00 E

180-00

SWG/POTTING MACHINE

- 34-3180 136

2 EA SPARE PARTS 4SPK-15-MM

82.00

164-00

KIT SWG/POTTING MACHINE

6006 .148

FR4-35-15 1 EA POTTING MACH

14,600.00

AS LISTED BELOW ... The above machine will be completely shop

assembled and wet tested prior to shipment. Liquid Control will provide in house video taping facilities to tape your wet test at no charge. Jeff Beals will assist in the start up of our new wquipment at our Downers Grove Sacility at no charge.

DOLLAR VALUE THIS ORDER

REQUIRED DELIVERY AT OUR PLANT AS FOLLOWS VENDOR PROMISED DELIVERY ITEM DATE QUAN. 10X QUAN. ITEM DATE XDI 8/01/89 .180 لللاء 3180 1.35 8/01/89 ALL 133 ALL :180 8/01/89 3160 136 8/01/89 ALL. 136 6006 8/01/89 148 148 ALL .006 c -

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SN-1762 ACCT. NO.

2659 WISCONSIN AVE. TELEPHONE 312-964-2300 **DOWNERS GROVE, IL 60515-0719** FAX NO. 312-980-7484

DATE

Contract Contract

いえん ひりか

The Morey Torporation

505.774

**PURCHASE ORDER** 

NO.

State 01 Illinois For For Consumption

GOVT, CONTRACT NUMBER

PRIDRITY RATING SHIP VIA: BRUD CERTIFIED UNDER DMS REG. #1

A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O TETA TRIBUNA ASSI VAL

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Section of the confidence

TOMP COMPRESSION SOUTHER LE

95777424 JULY بطيبة بالأب 8.23-84 CONFIRMED 70 FROM 25/65/10 TERMS WITHIN 4 DAYS PLEASE COUR INVOICE & ACKNOWLEDGE RECEIPT Of This Order and Advisor PACKING LIST Please furnish the following articles subject to conditions stated herein and printed on the back hereof, all of which conditions become part of this order by your acceptance thereof Date of Shipment. 10X NO. ITEM QUANTITY DESCRIPTION PRICE UNIT **EXTENSION** NO. 24,400.00 **POXX** in EA PUTTING MACH ひょくきどうにん 24,490.00 217 Œ MUSICATIO the table of PER HERBER OF CHARACTER \$150 PKG CHARGE

173

DOLLAR VALUE THIS ORDER REQUIRED DELIVERY AT OUR PLANT AS FOLLOWS VENDOR PROMISED DELIVERY ITEM DATE QUAN, QUAN. 10X 10X ITEM DATE -0,00 えいい ひごう 香砂 2000 7,01/00

The Morey Corporation

NOTE THAT THE QUANTITIES SHOWN ARE THE QUANTITIES D. ANY OVERAGES ARE SUBJECT TO RETURN.

Inder Number must appear on your a Slip, Bill of Lading and Involce.

May-10-02 09:03 LCC Parts SVC Fax 330 966 3006

P.05

ACCT. NO.

1177-0000



2869 WISCONSIN AVE. DOWNERS GROVE, IL 60515-0719 - TELEPHONE 312 - 964-2900

The Morey Torporation

46 6 1- 521 4 4 4 1

**PURCHASE ORDER** 

59344

DATE

3/04/86

State of Illinois For Cert, No. 410849 MFResile

Consumption

PRIGRITY RATING

CERTIFIED UNDER DMS REG. 4:

LIQUID CONTROL CORP.

7576 FREEDOM AVE N.W.

N. CANTON 節目 44720-0000

5025 SHIP VIA: UPIN

\*\* COMPIRMING ORDER \*\*

216/474-1313

FAT

JERRY 70

3,709,706 ON

Please furnish the following articles subject to conditions attend herein and printed on the back hereof, all of which conditions become part of this order by your acceptance thereof.

WITHIN 4 DAYS PLEASE ACKNOWLEDGE RECEIPT Of This Order and Advise Date of Shipment.

|            |             |          |                                                                                                                                                                                                            |              | -    | nioment.                              |
|------------|-------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|---------------------------------------|
| 10X<br>NO. | ITEM<br>NO. | QUANTITY | DESCRIPTION                                                                                                                                                                                                | PRICE        | UNIT | EXTENSION                             |
| 3180       | 136         | 1 EA     | POSI-RATIO 4188-36R%<br>FOTTING MACHINE<br>SIWIG:                                                                                                                                                          | 10,820.06    | ŗ.   | 10,820.00                             |
| . : :      |             | ·        |                                                                                                                                                                                                            |              |      |                                       |
| •.         |             | ·        | EFFECTIVE AT ONCE, WE MUST INSIST THAT ALL VENDORS SHOW DUR "10X ITEM & DESC." ON PACKING LISTS. FAILURE TO COMPLY MAY DELAY PAYMENT AND CAUSE REMOVAL FROM APPROVED SOURCE LISTINGS. THANKS FOR YOUR HELP |              |      |                                       |
| ·          |             |          | 1136) 25°2 / Recove                                                                                                                                                                                        | ALUE THIS OF | DE8  | 10 , <del>მ</del> 2წ. აბ <sup>ტ</sup> |

|      | REQUIR | ED DELIVERY A | TOUR PLANT AS FOLLOWS |      | VENDOR PROMISED DELIVERY |         |       |  |  |  |
|------|--------|---------------|-----------------------|------|--------------------------|---------|-------|--|--|--|
| 10X  | ITEM   | DATE          | QUAN,                 | 10X  | ITEM                     | DATE    | QUAN. |  |  |  |
| 3180 | 136    | 4/12/86       | ALL                   | 3180 | 135                      | 4/12/86 | ALL   |  |  |  |
|      |        |               |                       |      |                          | ļ       |       |  |  |  |
|      |        |               |                       |      |                          |         |       |  |  |  |
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|      |        |               |                       | ]]   | }                        |         |       |  |  |  |
|      |        |               |                       |      |                          |         |       |  |  |  |

The Morey Torporation

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e Purchase Order Number must appear on your kage, Packing Silp, Bill of Leding and Involce.

PURCHASING ACENT